فهم الحجم ووصفه كخاصية للأشكال الصلبة – هيكل – ريفيل (محلول)

تم تحميل هذا الملف من موقع المناهج الإماراتية	
موقع المناهج ⇦ المناهج الإماراتية ⇦ الصف الخامس ⇦ رياضيات ⇦ الفصل الأول ⇦ حلول ⇦ الملف	
تاريخ إضافة الملف على موقع المناهج: 12-11-2026 14:24:23	
المزيد من مادة رياضيات:	ملفات ا كتب للمعلم ا كتب للطالب ا اختبارات الكترونية ا اختبارات ا حلول ا عروض بوربوينت ا أوراق عمل منهج انجليزي ا ملخصات وتقارير ا مذكرات وبنوك ا الامتحان النهائي ا للمدرس
إعداد: Aghead	

التواصل الاجتماعي بحسب الصف الخامس					
صفحة المناهج الإماراتية على فيسبوك					
المواد على تلغرام	التربية الاسلامية	اللغة العربية	اللغة الانجليزية	الرياضيات	

المزيد من الملفات بحسب الصف الخامس والمادة رياضيات في الفصل الأول	
1	فهم الحجم ووصفه كخاصية للأشكال الصلبة – هيكل – ريفيل (محلول)
2	هيكل مراجعة وحل أسئلة الحجم – ريفيل
3	اختبار نهاية الفصل Reveal
4	تجميع هيكل مع حل
5	تجميع هيكل بدون حل

تحميل تطبيق المناهج للهواتف الذكية	
تطبيق المناهج على Store App (آبل)	تطبيق المناهج على Play Google (أندرويد)



وزارة التربية والتعليم
MINISTRY OF EDUCATION

Coverage Grade 5 Reveal

First term 2026-2027

اِحجِزْ مَكانَكَ وَاستَعِدَّ لِلْاِمتِحَانِ بِثِقَةٍ كَامِلَةٍ

احصل على الشرح الكامل للصف من خلال:

التواصل والحجز عبر الـ Whatsapp
اضغط على الرقم: 0566991363

للتواصل والحجز

للانتقال إلى المواقع
اضغط هنا

شرح الدروس

انضم للقناة



Mr. Aghead

MR. AGHEAD 0566991363

يمكنكم الحصول على



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Question 1: Volume, Understand Volume, Describe volume as an attribute of solid figures, Page 35, Example 1-7

MCQ -Multiple Choice Questions

Which of the given figures have volume?

A. 
B. 
C. 
D. 

For the situation: "the amount of soil needed to fill a flower pot", would you measure the length, area, or volume?

A. Volume, because soil fills a three-dimensional space inside the pot
B. Length, because it measures distance
C. Area, because it covers a flat surface
D. Length, because the pot has height

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For the situation: "the distance of a bike ride", would you measure the length, area, or volume?

A. Volume, because the bike occupies space
B. Area, because it covers the road surface
C. Length, because it measures a one-dimensional distance from one point to another
D. Area, because it involves speed and time

For the situation: "the amount of wall space covered by a poster", would you measure the length, area, or volume?

A. Length, because a poster has a top edge
B. Area, because a poster covers a flat two-dimensional surface
C. Volume, because the poster has thickness
D. Length, because it measures height

For the situation: "the amount of concrete needed to fill a patio", would you measure the length, area, or volume?

A. Length, because a patio has edges
B. Area, because a patio is flat
C. Volume, because concrete has depth and fills a three-dimensional space
D. Length, because concrete is poured along a line

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For the situation: "the space inside a moving truck", would you measure the length, area, or volume?

A. Area, because it measures the floor space of the truck
B. Volume, because it measures the internal three-dimensional capacity of the truck
C. Length, because it measures how long the truck is
D. Area, because it measures the side walls

For the situation: "the distance around a building", would you measure the length, area, or volume?

A. Length, because it is a one-dimensional measurement of perimeter distance
B. Area, because it surrounds the building base
C. Volume, because the building is a 3D structure
D. Area, because it covers the land space

Question 2: Volume, Use Unit Cubes to Determine Volume, Determine volume by counting unit cubes that fill a solid with no gaps or overlaps, Page 39, Example 1-7

MCQ - Multiple Choice Questions

Determine the number of layers, number of cubes in each layer, and the total volume of Figure.

A. Layers: 1, *Cubes per layer:* 4, *Volume:* 4 *cubic units*
B. Layers: 1, *Cubes per layer:* 6, *Volume:* 6 *cubic units*
C. Layers: 2, *Cubes per layer:* 2, *Volume:* 4 *cubic units*
D. Layers: 2, *Cubes per layer:* 4, *Volume:* 8 *cubic units*



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احصل على الشرح كاملاً بـ 99 درهم فقط

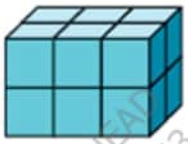
In this model (0.44), the value of the Determine the number of layers, number of cubes in each layer, and the total volume of Figure.

A. Layers: 3, *Cubes per layer:* 4, *Volume:* 12 *cubic units*
B. Layers: 2, *Cubes per layer:* 4, *Volume:* 8 *cubic units*
C. Layers: 2, *Cubes per layer:* 2, *Volume:* 4 *cubic units*
D. Layers: 4, *Cubes per layer:* 2, *Volume:* 8 *cubic units*



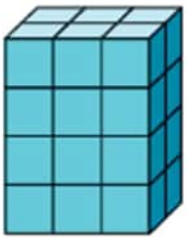
Determine the number of layers, number of cubes in each layer, and the total volume of Figure.

A. Layers: 2, *Cubes per layer:* 3, *Volume:* 6 *cubic units*
B. Layers: 3, *Cubes per layer:* 4, *Volume:* 12 *cubic units*
C. Layers: 2, *Cubes per layer:* 6, *Volume:* 12 *cubic units*
D. Layers: 3, *Cubes per layer:* 2, *Volume:* 6 *cubic units*



Determine the number of layers, number of cubes in each layer, and the total volume of Figure.

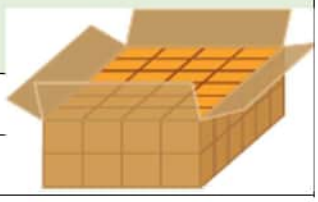
A. Layers: 4, *Cubes per layer:* 6, *Volume:* 24 *cubic units*
B. Layers: 6, *Cubes per layer:* 4, *Volume:* 24 *cubic units*
C. Layers: 4, *Cubes per layer:* 4, *Volume:* 16 *cubic units*
D. Layers: 3, *Cubes per layer:* 8, *Volume:* 24 *cubic units*



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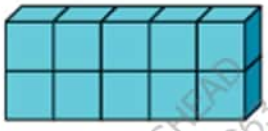
How can you determine the volume of the box filled with unit cubes shown in this Exercise ?

A. Measure the distance around the outside edges of the box.
B. Multiply the number of unit cubes in one layer by the total number of layers filling the box without gaps.
C. Add the length of the base to the width of the box.
D. Count only the unit cubes visible on the top layer.



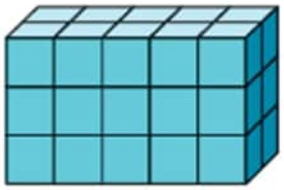
What is the volume of the rectangular prism shown in Figure?

A. 6 cubic units
B. 8 cubic units
C. 10 cubic units
D. 12 cubic units



What is the volume of the rectangular prism shown in Figure?

A. 18 cubic units
B. 24 cubic units
C. 30 cubic units
D. 36 cubic units



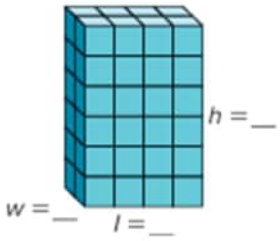
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Question 3: Volume, Use Formulas to Determine Volume, Find the volume of rectangular prisms using formulas, Page 43, Example 1-7

MCQ - Multiple Choice Questions

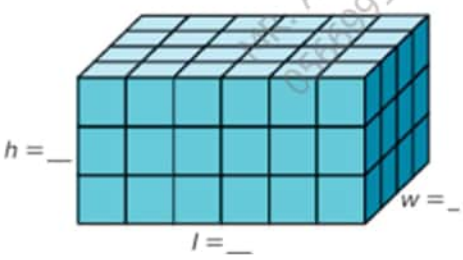
Find the dimensions (l, w, h) and the total volume (V) for this Figure.

A. $l = 2, w = 3, h = 6 \Longrightarrow V = 36$ cubic units
B. $l = 3, w = 2, h = 6 \Longrightarrow V = 36$ cubic units
C. $l = 2, w = 2, h = 6 \Longrightarrow V = 24$ cubic units
D. $l = 3, w = 3, h = 5 \Longrightarrow V = 45$ cubic units



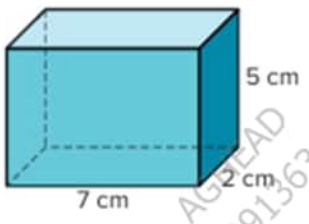
Find the dimensions (l, w, h) and the total volume (V) for Figure.

A. $l = 6, w = 3, h = 3 \Longrightarrow V = 54$ cubic units
B. $l = 6, w = 3, h = 4 \Longrightarrow V = 72$ cubic units
C. $l = 5, w = 2, h = 4 \Longrightarrow V = 40$ cubic units
D. $l = 4, w = 3, h = 6 \Longrightarrow V = 72$ cubic units



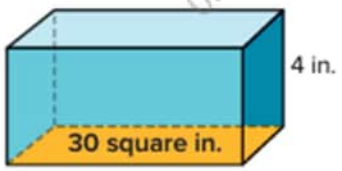
What is the volume of the rectangular prism with $l = 7$ cm, $w = 2$ cm, and $h = 5$ cm?

A. 70 cm^3
B. 49 cm^3
C. 35 cm^3
D. 14 cm^3



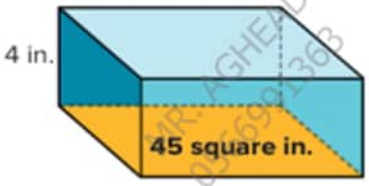
What is the volume of the rectangular prism with a Base Area (B) of 30 sq. in. and a height (h) of 4 in.?

A. 60 cu. in
B. 34 cu. in
C. 120 cu. in
D. 140 cu. in



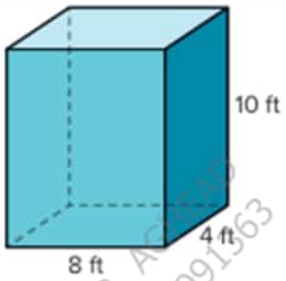
What is the volume of the rectangular prism with $B = 45$ sq. in. and $h = 4$ in.?

A. 90 cu. in.
B. 180 cu. in.
C. 135 cu. in.
D. 200 cu. in.



What is the volume of the rectangular prism with $l = 8$ ft, $w = 4$ ft, and $h = 10$ ft?

A. 320 ft^3
B. 80 ft^3
C. 320 ft^3
D. 160 ft^3



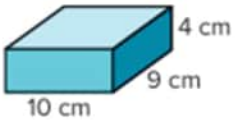
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احصل على الشرح كاملاً بـ 99 درهم فقط

للتواصل اضغط الرقم: 0566991363

How can the Associative Property of Multiplication be used to mentally find the volume of a prism with dimensions **10** cm, **9** cm, and **4** cm?

A. Group $9 \times 4 = 36$ *first, then multiply by* 10 $(36 \times 10 = 360\ cm^3)$
B. Group $10 \times 9 = 90$ *first, then add* 4 $(90 + 4 = 94\ cm^3)$
C. Multiply $10 \times 4 = 40$ *then divide by* 9
D. Add all dimensions together: $10 + 9 + 4 = 23\ cm^3$



Question 4: Place Value and Number Relationships, Generalize Place Value, Recognize that the value of a digit represents ten times as much as it represents in the place to its right, Page 65, Example 1-8

MCQ - Multiple Choice Questions

Based on the chart, complete the sentence: The value of the 6 in the hundreds place is _____ times the value of the 6 in the _____ place.

A. 10 *times, tens*
B. 100 *times, tens*
C. $\frac{1}{10}$ *times, thousands*
D. 10 *times, ones*

hundred thousands	ten thousands	thousands	hundreds	tens	ones
	3	2	5	6	5
	7	3	6	1	0

In the number 447,699, the value of the digit 4 in the ten thousands place is _____ the value of the digit 4 in the hundred thousands place.

A. 10 *times*
B. $\frac{1}{10}$ *times*
C. 100 *times*
D. $\frac{1}{100}$ *times*

In the number 447,699, the value of the digit 9 in the tens place is 10 times the value of the digit 9 in the _____ place.

A. ones
B. hundreds
C. tenths
D. ten thousands

Is the statement true or false? "The digit 3 in 5,630 is 10 times the value of the digit 3 in 342.

A. True, because $30 = 10 \times 300$
B. True, because both contain the digit 3
C. False, because the digit 3 *in* 5,630 *is in the tens place* (30) *and the digit* 3 *in* 342 *is in the hundreds place* (300)
D. False, because it is 100 *times greater*

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Is the statement true or false? "The digit 3 in 5,630 is $\frac{1}{10}$ the value of the digit 3 in 342.

A. True, because 30 *(tens place in* 5,630*) is* $\frac{1}{10}$ *of* 300 *(hundreds place in* 342*)*
B. False, because they are equal
C. False, because 30 *is greater than* 300
D. True, because $300 = 10 \times 30$

Is the statement true or false? "The digit 3 in 5,630 is 10 times the value of the 3 in 13.

A. True, because 30 *(tens place in* 5,630*) is* 10 *times* 3 *(ones place in* 13*)*
B. False, because 30 *is* $\frac{1}{10}$ *of* 3
C. False, because both digits are in the same place
D. True, because $3 \times 10 = 300$

Is the statement true or false? "The digit 3 in 5,630 is $\frac{1}{10}$ the value of the digit 3 in 13.

A. False, because 30 *is* 10 *times as much as* 3*, not* $\frac{1}{10}$
B. False, because 30 *is equal to* 3
C. True, because $3 = \frac{1}{10} \times 30$
D. True, because tens are smaller than ones

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احصل على الشرح كاملاً بـ 99 درهم فقط

On Tuesday, 600 people attended a play. On Saturday, 6,000 people attended. When you compare 600 attendees to 6,000 attendees, 600 is _____ as much as 6,000.

A. 10 *times*
B. $\frac{1}{10}$
C. 100 *times*
D. $\frac{1}{100}$

Question 5: Place Value and Number Relationships, Read and Write Decimals, Read and write decimals to thousandths using standard form, expanded form, and word form, Page 73, Example 1-12

MCQ - Multiple Choice Questions

What is the word form of the decimal 8.2?

A. eight and two hundredths
B. eight and two tenths
C. eighty-two tenths
D. eight and two thousandths

What is the word form of the decimal 8.02?

A. eight and two hundredths
B. eight and two tenths
C. eighty-two tenths
D. eight and two thousandths

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What is the word form of the decimal 0.82?

A. eight and two tenths
B. eighty-two thousandths
C. eighty-two hundredths
D. eight and two hundredths

What is the word form of the decimal 0.082?

A. eighty-two thousandths
B. eight hundred two thousandths
C. eight and two thousandths
D. eighty-two hundredths

What is the standard form of 0.9 + 0.03 + 0.007?

A. 0.937
B. 9.37
C. 0.9037
D. 9.037

What is the standard form of $20 + 0.7 + 0.08 + 0.006$*?*

A. 2.786
B. 20.78
C. 20.786
D. 200.786

What is the standard form of $5 + 0.01 + 0.009$?

A. 5.19
B. 5.019
C. 5.109
D. 50.19

What is the standard form of $7 + \frac{4}{10} + \frac{5}{1{,}000}$?

A. 7.45
B. 7.450
C. 7.045
D. 7.405

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Which choice correctly gives the standard form AND expanded form for "ninety-three and six thousandths"?

A. Standard: 93.006, *Expanded:* 90 + 3 + 0.006
B. Standard: 93.600, *Expanded:* 90 + 3 + 0.6
C. Standard: 93.060, *Expanded:* 90 + 3 + 0.06
D. Standard: 9.306, *Expanded:* 9 + 0.3 + 0.006

Which choice correctly gives the standard form AND expanded form for "three and eight hundred forty-six thousandths"?

A. Standard: 3.84, *Expanded:* 3 + 0.8 + 0.04
B. Standard: 3.846, *Expanded:* 3 + 0.8 + 0.04 + 0.006
C. Standard: 38.46, *Expanded:* 30 + 8 + 0.4 + 0.06
D. Standard: 3.0846, *Expanded:* 3 + 0.08 + 0.004 + 0.0006

Which choice correctly gives the standard form AND expanded form for "two hundred twelve and fifteen thousandths"?

A. Standard: 212.15, *Expanded:* 200 + 10 + 2 + 0.1 + 0.05
B. Standard: 212.150, *Expanded:* 200 + 10 + 2 + 0.15
C. Standard: 200.215, *Expanded:* 200 + 0.2 + 0.01 + 0.005
D. Standard: 212.015, *Expanded:* 200 + 10 + 2 + 0.01 + 0.005

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Which choice correctly gives the standard form AND expanded form for "seven hundred fifty-one thousandths"?

A. Standard: 0.751, *Expanded:* 0.7 + 0.05 + 0.001
B. Standard: 0.0751, *Expanded:* 0.07 + 0.005 + 0.0001
C. Standard: 7.51, *Expanded:* 7 + 0.5 + 0.01
D. Standard: 751, *Expanded:* 700 + 50 + 1

Question 6: Place Value and Number Relationships, Use Place Value to Round Decimals, Use rounding strategies to round decimals , Page 83, Example 1-10

MCQ - Multiple Choice Questions

What is the decimal 78. 39 rounded to the nearest whole number?

A. 79
B. 78
C. 78.4
D. 80

What is the decimal 4. 07 rounded to the nearest whole number?

A. 4.0
B. 4.1
C. 5
D. 4

What is the decimal 12.7 rounded to the nearest whole number?

A. 13
B. 10
C. 12.7
D. 12

What is the decimal 15.55 rounded to the nearest whole number?

A. 15
B. 15.6
C. 15.5
D. 16

What is the decimal 42.89 rounded to the nearest tenth?

A. 42.8
B. 42.9
C. 43.0
D. 42.90

What is the decimal 3.65 rounded to the nearest tenth?

A. 3.7
B. 4.0
C. 3.75
D. 3.6

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What is the decimal 16.12 rounded to the nearest tenth?

A. 16.2
B. 16.1
C. 16.0
D. 16.15

What is the decimal 98.17 rounded to the nearest tenth?

A. 98.2
B. 99.0
C. 98.0
D. 98.1

Danica rounded a number to the nearest tenth to get 14.7. Which of the following numbers could she have rounded to get this answer?

A. 14.76
B. 14.68
C. 14.62
D. 14.75

Which pair of statements about the decimal 43.678 is TRUE?

A. The decimal 43.678 rounded to the nearest tenth is 43.6
B. The decimal 43.678 rounded to the nearest tenth is 43.7
C. The decimal 43.678 rounded to the nearest hundredth is 43.68
D. The decimal 43.678 rounded to the nearest hundredth is 43.67

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احصل على الشرح كاملاً بـ 99 درهم فقط

Question 7: Add and Subtract Decimals, Estimate Sums and Differences of Decimals, Estimate sums and differences of decimals, Page 95, Example 1-9

MCQ - Multiple Choice Questions

What is a reasonable estimate for the sum of $9.86 + 4.30$?

A. $9 + 4 = 13$
B. $10 + 4 = 14$
C. $9 + 5 = 14$
D. $10 + 5 = 15$

What is a reasonable estimate for the sum of $43.85 + 56.01$?

A. $43 + 56 = 99$
B. $44 + 56 = 100$
C. $44 + 57 = 101$
D. $43 + 57 = 100$

What is a reasonable estimate for the sum of $3.92 + 6.14$?

A. $3 + 6 = 9$
B. $4 + 7 = 11$
C. $4 + 6 = 10$
D. $3 + 7 = 10$

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احصل على الشرح كاملاً بـ 99 درهم فقط

What is a reasonable estimate for the sum of $24.73 + 26.05$?

A. $25 + 26 = 51$
B. $24 + 26 = 50$
C. $25 + 27 = 52$
D. $24 + 27 = 51$

What is a reasonable estimate for the difference of $8.32 - 5.9$?

A. $8 - 5 = 3$
B. $8 - 6 = 2$
C. $9 - 6 = 3$
D. $8 - 4 = 4$

What is a reasonable estimate for the difference of $88.4 - 10.96$?

A. $88 - 11 = 77$
B. $89 - 10 = 79$
C. $89 - 10 = 79$
D. $88 - 10 = 78$

What is a reasonable estimate for the difference of $16.28 - 5.9$?

A. $16 - 5 = 11$
B. $17 - 6 = 11$
C. $16 - 6 = 10$
D. $16 - 5 = 11$

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What is a reasonable estimate for the difference of $5.42 - 1.7$?

A. $5 - 2 = 3$
B. $5 - 1 = 4$
C. $6 - 2 = 4$
D. $5 - 1.5 = 3.5$

A baby rabbit weighs 24.8 grams. A veterinarian predicts the rabbit will weigh about 64.5 grams by the next visit. About how much weight will the rabbit gain?

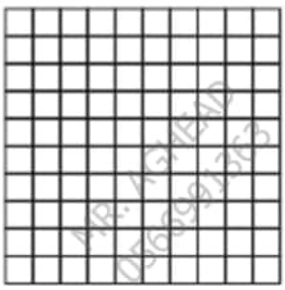
A. $64 - 24 = 40$ grams
B. $64 - 25 = 39$ grams
C. $65 - 25 = 40$ grams
D. $60 - 20 = 40$ grams

Question 8: Add and Subtract Decimals, Represent Addition of Decimals, Represent addition of decimals using decimal grids, Page 101, Example 1-10

MCQ - Multiple Choice Questions

What is the sum of $0.7 + 0.1$ using decimal grids?

A. 0.8
B. 0.6
C. 0.71
D. 1.8

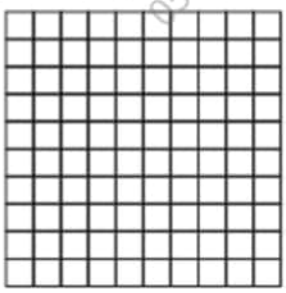


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احصل على الشرح كاملاً بـ 99 درهم فقط

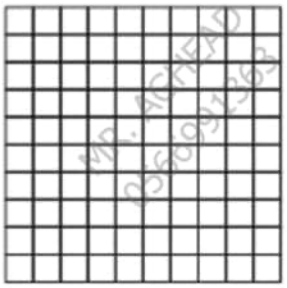
What is the sum of $0.5 + 0.8$ using decimal grids?

A. 0.13
B. 1.2
C. 1.3
D. 1.5



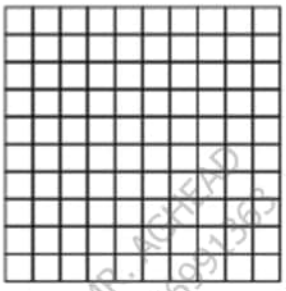
What is the sum of $0.02 + 0.09$ using decimal grids?

A. 0.011
B. 0.29
C. 0.92
D. 0.11



What is the sum of $0.78 + 0.64$ using decimal grids?

A. 1.42
B. 1.32
C. 0.142
D. 1.48



What is the sum of $0.2 + 0.7$?

A. 0.5
B. 0.09
C. 0.9
D. 1.0

What is the sum of $0.5 + 0.6$?

A. 1.1
B. 0.11
C. 0.9
D. 1.2

What is the sum of $0.08 + 0.06$?

A. 0.14
B. 0.014
C. 1.4
D. 0.48

What is the sum of $0.79 + 0.84$?

A. 1.53
B. 1.61
C. 1.63
D. 0.163

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What is the sum of $0.32 + 0.88$?

A. 1.20
B. 1.22
C. 1.12
D. 1.10

What is the sum of $0.46 + 0.29$?

A. 0.65
B. 0.75
C. 0.73
D. 1.15

Question 9: Add and Subtract Decimals, Represent Addition of Tenths and Hundredths, Explain how to use various strategies to add decimals, Page 105+106, Example 1-11

MCQ - Multiple Choice Questions

What is the sum of $0.9 + 0.02$?

A. 0.92
B. 0.11
C. 0.902
D. 1.1

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What is the sum of $0.14 + 0.5$?

A. 0.19
B. 0.64
C. 0.60
D. 1.9

What is the sum of $0.45 + 0.4$?

A. 0.85
B. 0.49
C. 0.80
D. 0.89

What is the sum of $0.6 + 0.09$?

A. 0.69
B. 0.15
C. 0.609
D. 0.96

What is the sum of $0.7 + 0.18$?

A. 0.25
B. 0.88
C. 0.718
D. 0.78

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What is the sum of $0.86 + 0.5$?

A. 1.36
B. 0.91
C. 1.31
D. 0.136

What is the sum of $0.44 + 0.6$?

A. 0.50
B. 1.00
C. 0.104
D. 1.04

What is the sum of $0.1 + 0.89$?

A. 0.90
B. 0.99
C. 0.189
D. 1.00

Adrian jumped 0.25 meter down a sidewalk. He jumped again and went an additional 0.3 meter. What is the total distance Adrian jumped?

A. 0.55 meter
B. 0.28 meter
C. 0.58 meter
D. 0.35 meter

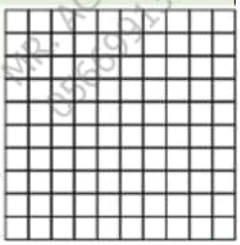
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Vi bought 1.4 pounds of pecans and 0.79 pound of almonds. What is the total weight of the nuts Vi bought?

A. 2.11 pounds
B. 0.93 pound
C. 2.19 pounds
D. 1.19 pounds

Abe represented the expression $0.32 + 0.4$ on a decimal grid by shading 32 small squares and then shading 4 small squares (total 36 squares). What is Abe's error?

A. He should have added $32 + 400 = 432$
B. He treated 0.4 *as* 4 *hundredths (*0.04*) instead of* 4 *tenths (*0.40 = 40 *squares). The correct sum is* 0.72
C. He should have shaded 3.2 *squares instead of* 32
D. He should have subtracted 4 *squares from* 32



Sage has a goal of traveling 1.6 miles each day. She bikes 0.3 mile, runs 1.2 miles, and swims 0.25 mile. Did Sage reach her goal?

A. Yes, because her total distance is 1.75 *miles, which is greater than* 1.6 *miles.*
B. No, because her total distance is 1.55 *miles, which is less than* 1.6 *miles.*
C. Yes, because her total distance is exactly 1.6 *miles.*
D. No, because swimming does not count toward the goal.

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Question 10: Add and Subtract Decimals, Represent Subtraction of Decimals, Represent subtraction of decimals less than 1 containing hundredths, Page 112, Example learn

MCQ - Multiple Choice Questions

how much more is shaded red (0.4) than green (0.2) using the number line equation $0.4 - 0.2 = r$

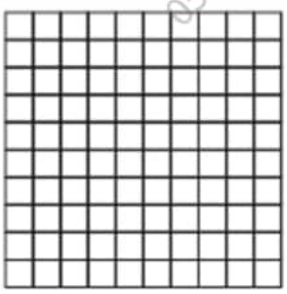
A. 0.2
B. 0.6
C. 0.02
D. 0.14



Color	Decimal
Red	0.4
Green	0.2
Yellow	0.36
Purple	0.04

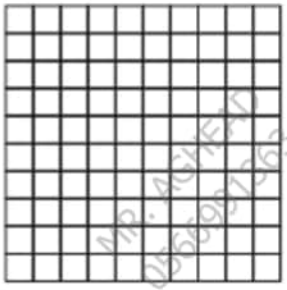
How much more is shaded yellow (0.36) than purple (0.04) using the decimal grid equation $0.36 - 0.04 = y$?

A. 0.40
B. 0.30
C. 0.32
D. 0.032



On a decimal grid representing $0.36 - 0.04 = 0.32$, what do the 4 squares marked with an "X" represent?

A. The subtracted amount of 0.04 *(purple)*
B. The green shaded amount
*C. The final answer (*0.32*)*
D. The starting total quantity



How much greater is the mass of an emu egg (0.62 kg) than a chicken egg (0.06 kg)?

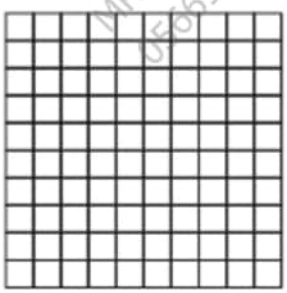
A. 0.68 kg
B. 0.56 kg
C. 0.58 kg
D. 0.056 kg

Question 11: Add and Subtract Decimals, Represent Subtraction of Tenths and Hundredths, Subtract tenths from hundredths, Page 117+118, Example 1-8

MCQ - Multiple Choice Questions

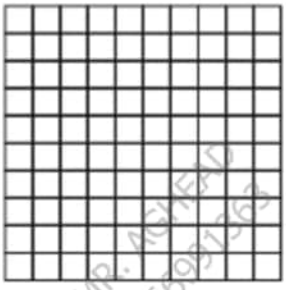
What is the difference of $0.54 - 0.1$?

A. 0.44
B. 0.53
C. 0.45
D. 0.64



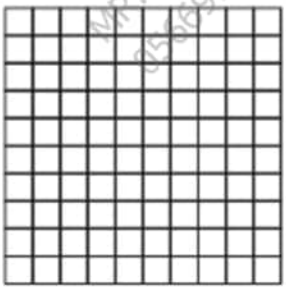
What is the difference of $0.9 - 0.02$?

A. 0.7
B. 0.07
C. 0.88
D. 0.92



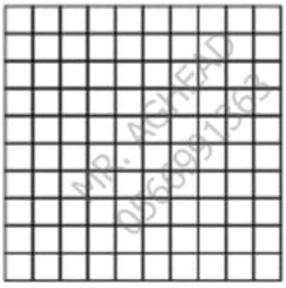
What is the difference of $1.07 - 0.3$?

A. 0.77
B. 1.04
C. 0.70
D. 1.37



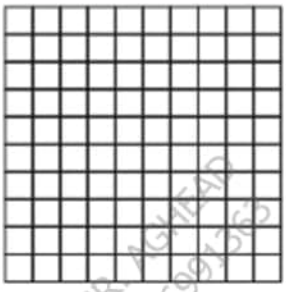
What is the difference of $1.28 - 0.7$?

A. 0.58
B. 0.51
C. 1.21
D. 0.68



What is the difference of $2.3 - 0.27$?

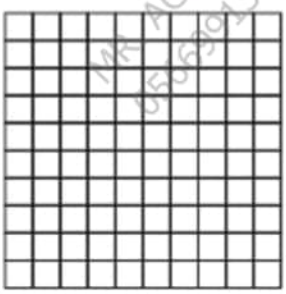
A. 2.07
B. 2.03
C. 2.13
D. 1.97



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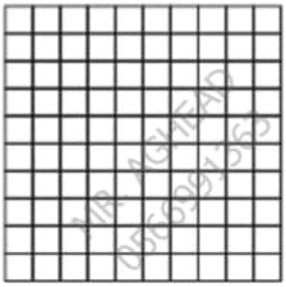
What is the difference of $2.7 - 1.68$?

A. 1.02
B. 1.12
C. 1.08
D. 1.18



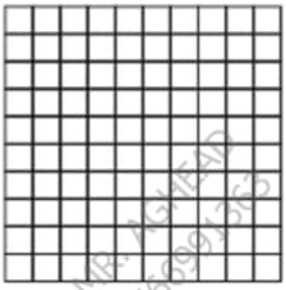
What is the difference of $1.74 - 0.8$?

A. 0.98
B. 1.66
C. 0.86
D. 0.94



What is the difference of $2.25 - 1.8$?

A. 0.45
B. 0.35
C. 1.45
D. 0.55



Question 12: Multiply Multi-Digit Whole Numbers, Understand Powers and Exponents, Write a power of 10 using a base of 10 and exponents, Page 137, Example 1-14

MCQ - Multiple Choice Questions

Which multiplication expression represents 10^4?

A. $10 \times 10 \times 10 \times 10$
B. 10×4
C. $4 \times 4 \times 4 \times 4$
D. $10 + 10 + 10 + 10$

Which multiplication expression represents 10^2?

A. 10×2
B. $2 \times 2 \times 10$
C. 10×10
D. $10 + 10$

Which multiplication expression represents 10^3?

A. $10 \times 10 \times 10$
B. $3 \times 3 \times 3$
C. 10×10
D. $q = 30.25$

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Which multiplication expression represents 10^6?

A. $6 \times 6 \times 6 \times 6 \times 6 \times 6$
B. 10×6
C. $10 \times 10 \times 10 \times 10 \times 10 \times 10$
D. $10 + 6$

What is the exponential form of $10 \times 10 \times 10$?

A. 10^3
B. 10^2
C. 10^4
D. 3^{10}

What is the exponential form of $10 \times 10 \times 10 \times 10 \times 10$?

A. 10^4
B. 5^{10}
C. 10^5
D. 10^6

What is the exponential form of $10 \times 10 \times 10 \times 10$?

A. 10^4
B. 10^3
C. 4^{10}
D. 10^5

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What is the exponential form of 10×10?

A. 2^{10}
B. 10^{1}
C. 10^{2}
D. 10^{3}

What is the exponential form of 10?

A. 10^{1}
B. 10^{0}
C. 10^{2}
D. 1^{10}

What is the exponential form of $1,000$?

A. 10^{2}
B. 10^{4}
C. 10^{3}
D. 100^{3}

What is the exponential form of 100?

A. 10^{1}
B. 10^{3}
C. 10^{4}
D. 10^{2}

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What is the exponential form of $10,000$?

A. 10^4
B. 10^3
C. 10^5
D. 4^{10}

Rachel evaluated 10^5 as $10 \times 5 = 50$. Do you agree with Rachel's solution?

A. Yes, because exponents mean multiplying the base by the exponent.
B. No, because 10^5 *means multiplying* 10 *by itself* 5 *times* $(10 \times 10 \times 10 \times 10 \times 10 = 100{,}000)$
C. No, because the correct value of 10^5 *is* 500.
D. Yes, because $10 \times 5 = 50$ *is mathematically correct.*

Grace reviewed 10^6 lines of a computer program. How many lines of code did she review as a standard product?

A. 1,000,000 lines
B. 60,000 lines
C. 100,000 lines
D. 10,000,000 lines

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Question 13: Multiply Multi-Digit Whole Numbers, Patterns When Multiplying a Whole Number by Powers of 10 Determine the products of numbers multiplied by powers of 10 written with exponents, Page 141+142, Example 1-16

MCQ - Multiple Choice Questions

What is the product? Use patterns to solve.

1. $12 \times 10 =$ _____
   $12 \times 100 =$ _____
   $12 \times 1{,}000 =$ _____

A) 120; 1, 200; 12, 000
B) 12; 120; 1, 200
C) 240; 2, 400; 24, 000
D) 1, 200; 12, 000; 120, 000

D	C	B	A

2. $24 \times 1{,}000 =$ _____
   $24 \times 10{,}000 =$ _____
   $24 \times 100{,}000 =$ _____

A) 2, 400; 24, 000; 240, 000
B) 24, 000; 240, 000; 2, 400, 000
C) 240, 000; 2, 400, 000; 24, 000, 000
D) 24, 000; 48, 000; 96, 000

D	C	B	A

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3. $33 \times 10^2 =$ _____

$33 \times 10^3 =$ _____

$33 \times 10^4 =$ _____

A) 330; 3,300; 33,000
B) 3,300; 33,000; 330,000
C) 33,000; 330,000; 3,300,000
D) 300; 3,000; 30,000

D	C	B	A

4. $57 \times 10^4 =$ _____

$57 \times 10^5 =$ _____

$57 \times 10^6 =$ _____

A) 57,000; 570,000; 5,700,000
B) 570,000; 5,700,000; 57,000,000
C) 5,700,000; 57,000,000; 570,000,000
D) 570,000; 57,000,000; 570,000,000

D	C	B	A

What is the product?

5. 23×10^3

A) 2,300
B) 23,000
C) 230,000
D) 2,300,000

D	C	B	A

6. 581×10^2

A) 5,810
B) 58,100
C) 581,000
D) 58,000

D	C	B	A

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7. 60×10^4

A) 60, 000
B) 600, 000
C) 6, 000, 000
D) 240, 000

D	C	B	A

8. 103×10^2

A) 10, 300
B) 1, 030
C) 103, 000
D) 1, 030, 000

D	C	B	A

What is the unknown factor?

9. $571 \times _____ = 5{,}710$

A) 1
B) 100
C) 10
D) 1, 000

D	C	B	A

10. $43 \times _____ = 4{,}300{,}000$

A) 10, 000
B) 1, 000, 000
C) 100
D) 100, 000

D	C	B	A

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11. $6 \times$ _____ $= 6{,}000$

A) 100
B) 1, 000
C) 10, 000
D) 600

D	C	B	A

12. $28 \times$ _____ $= 280{,}000$

A) 10, 000
B) 1, 000
C) 100, 000
D) 28, 000

D	C	B	A

13. How can you describe the relationship between the equations shown?

$6 \times 10^5 = 600{,}000$
$6 \times 10^7 = 60{,}000{,}000$
$6 \times 10^9 = 6{,}000{,}000{,}000$

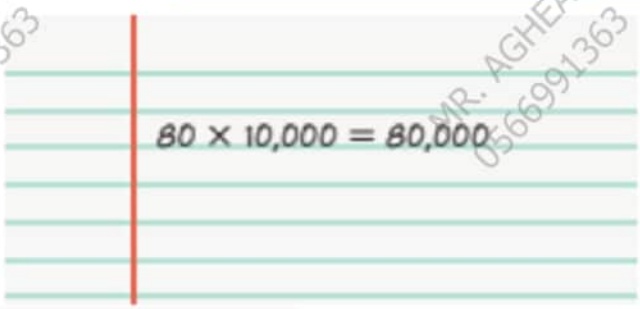
A) Each time the exponent increases by 1, the digits in the first factor shift 1 place to the left.
B) The digits in the first factor shift 2 places to the right each time the exponent increases by 2.
C) Each time the exponent increases by 2, the digits in the first factor shift 2 more places to the left.
D) The exponent decreases, so the number of zeros decreases by 2 each time.

D	C	B	A

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14. Error Analysis Carol says the equation that she wrote is correct. How do you respond to her?



A) Her equation is correct because $80 \times 1,000 = 80,000$.

B) Her equation is incorrect. She only multiplied $8 \times 10,000$, not $80 \times 10,000$. The correct product is $800,000$.

C) Her equation is incorrect because the product should have six zeros, making it $8,000,000$.

D) Her equation is correct because multiplying by $10,000$ always adds three zeros to the number.

D	C	B	A

15. Which equations are *true*? Circle all that apply.

A. $6 \times 100 = 6 \times 10 \times 10 \times 10$

B. $10,000 \times 4 = 10 \times 10 \times 10 \times 10 \times 4$

C. $15 \times 10^3 = 1,500$

D. $70 \times 10 \times 10 = 7,000$

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16. Extend Your Thinking Find the unknown factor that is a whole numbe g.

$$? \times 10^5 = 56{,}300{,}000$$

A) 563
B) 5, 630
C) 56.3
D) 56, 300

D	C	B	A

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Question 14: Use an area model and partial products to multiply multi-digit whole numbers

Page 149, 1-8

MCQ - Multiple Choice Questions

Complete the area model. Then solve to find the product.

1.

	100	+ 50	+ 4
30	3,000		
+ 6	600		

A) 4, 824
B) 5, 120
C) 5, 544
D) 6, 000

D	C	B	A

2.

	400	+ 20	+ 1
50	20,000		50
+ 2			

A) 21, 892
B) 20, 892
C) 22, 450
D) 21, 092

D	C	B	A

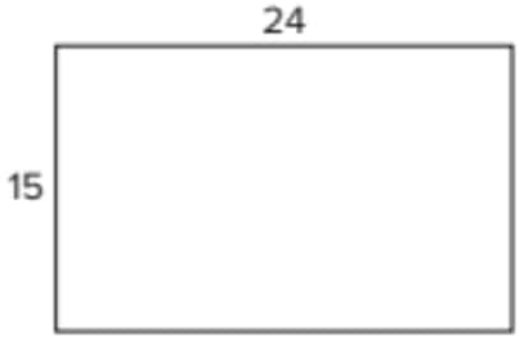
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What is the product? Use area models to solve.

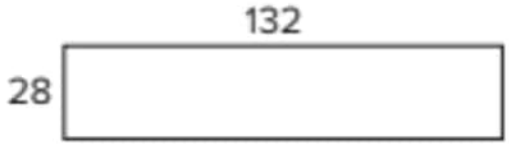
3. $15 \times 24 =$ _____



A) 320
B) 340
C) 400
D) 360

D	C	B	A

4. $28 \times 132 =$ _____



A) 3, 596
B) 3, 696
C) 3, 726
D) 3, 846

D	C	**B**	A

5. $33 \times 78 =$ _____

A) 2, 424
B) 2, 614
C) 2, 574
D) 2, 584

D	**C**	B	A

6. $72 \times 225 =$ _____

A) 16, 200
B) 15, 800
C) 16, 450
D) 17, 100

D	C	B	**A**

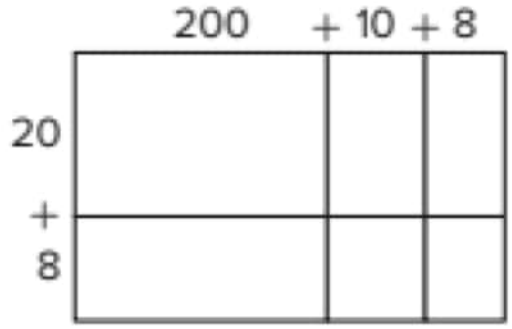
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Write the multiplication equation based on the area model. Then solve to find the product.

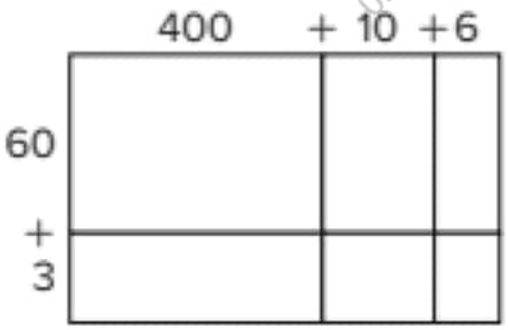
7.



A) $218 \times 28 = 6,104$
B) $208 \times 28 = 5,824$
C) $218 \times 82 = 17,876$
D) $228 \times 28 = 6,384$

D	C	B	A

8.



A) $461 \times 63 = 29,043$
B) $416 \times 36 = 14,976$
C) $416 \times 63 = 26,208$
D) $406 \times 63 = 25,578$

D	C	B	A

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Question 15: Use an area model and partial products to multiply multi-digit whole numberMultiply using an algorithms

Page 157, 1-8

MCQ - Multiple Choice Questions

What is the product?

1. $\begin{array}{r} 327 \\ \times \quad 6 \\ \hline \end{array}$

A) 1, 862
B) 1, 952
C) 1, 962
D) 2, 062

D	C	B	A

2. $\begin{array}{r} 543 \\ \times \quad 8 \\ \hline \end{array}$

A) 4, 344
B) 4, 324
C) 4, 244
D) 4, 352

D	C	B	A

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3. $\begin{array}{r} 1{,}931 \\ \times \quad 5 \\ \hline \end{array}$

A) 9, 555
B) 9, 650
C) 9, 755
D) 9, 655

D	C	B	A

4. $\begin{array}{r} 3{,}462 \\ \times \quad 4 \\ \hline \end{array}$

A) 13, 748
B) 13, 848
C) 13, 858
D) 14, 048

D	C	B	A

What is the product? Choose the correct answer.

5. $188 \times 7 = s$

A. $s = 1{,}300$
B. $s = 1{,}316$
C. $s = 1{,}388$
D. $s = 1{,}406$

6. $237 \times 9 = v$

A. $v = 2{,}033$
B. $v = 2{,}163$
C. $v = 2{,}153$
D. $v = 2{,}133$

7. $2{,}623 \times 2 = y$

A. $y = 5{,}246$
B. $y = 4{,}246$
C. $y = 5{,}126$
D. $y = 5{,}616$

8. $5{,}246 \times 3 = r$

A. $r = 15{,}882$
B. $r = 16{,}838$
C. $r = 16{,}612$
D. $r = 15{,}738$

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Question 16: Use patterns to multiply a decimal by a power of 10

Page 175, 1-5

MCQ - Multiple Choice Questions

Write the multiplication expression using factors of 10. Then, find the value.

1. 3.6×10^2

A) $3.6 \times 10 \times 10;\ 360$
B) $3.6 \times 10;\ 36$
C) $3.6 \times 20;\ 72$
D) $3.6 \times 10 \times 10;\ 3,600$

D	C	B	A

2. 7.2×10^3

A) $7.2 \times 10 \times 10;\ 720$
B) $7.2 \times 30;\ 216$
C) $7.2 \times 10 \times 10 \times 10;\ 7,200$
D) $7.2 \times 10 \times 10 \times 10;\ 72,000$

D	C	B	A

3. 4.8×10^4

A) $4.8 \times 10 \times 10 \times 10;\ 4,800$
B) $4.8 \times 10 \times 10 \times 10 \times 10;\ 48,000$
C) $4.8 \times 40;\ 192$
D) $4.8 \times 10 \times 10 \times 10 \times 10;\ 480,000$

D	C	B	A

4. 1.9×10^2

A) $1.9 \times 10;\ 19$
B) $1.9 \times 10 \times 10;\ 1,900$
C) $1.9 \times 20;\ 38$
D) $1.9 \times 10 \times 10;\ 190$

D	C	B	A

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5. Ashley rides the train to visit her grandmother. She lives 1.2×10^2 miles away from her grandmother. How many miles does she travel?

A) 12 mi
B) 120 mi
C) 1, 200 mi
D) 24 mi

D	C	B	A

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احصل على الشرح كاملاً بـ 99 درهم فقط

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Question 17: Explain how to estimate products of two decimals

Page 179, 1-13

MCQ - Multiple Choice Questions

Estimate each product by rounding. Show your work.

1. $5.73 \times 3.16 = ?$

A) about 15
B) about 18
C) about 24
D) about 20

D	C	B	A

2. $6.23 \times 3.87 = ?$

A) about 18
B) about 28
C) about 24
D) about 30

D	C	B	A

3. $13.6 \times 9.82 = ?$

A) about 140
B) about 130
C) about 150
D) about 120

D	C	B	A

4. $40.55 \times 7.89 = ?$

A) about 320
B) about 360
C) about 280
D) about 328

D	C	B	A

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5. $19.91 \times 28.75 = ?$

A) about 580
B) about 600
C) about 560
D) about 500

D	C	B	A

6. $24.09 \times 12.57 = ?$

A) about 288
B) about 312
C) about 300
D) about 325

D	C	B	A

Estimate each product by finding a range. Show your work.

7. $4.93 \times 7.88 = ?$

A) between 20 and 32
B) between 24 and 35
C) between 28 and 40
D) between 30 and 45

D	C	B	A

8. $3.29 \times 3.81 = ?$

A) between 9 and 16
B) between 6 and 12
C) between 12 and 20
D) between 9 and 12

D	C	B	A

9. $7.77 \times 10.8 = ?$

A) between 77 and 88
B) between 70 and 88
C) between 60 and 80
D) between 80 and 99

D	C	B	A

10. $4.1 \times 13.5 = ?$

A) between 40 and 60
B) between 48 and 65
C) between 50 and 75
D) between 52 and 70

D	C	B	A

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للتواصل اضغط الرقم: 0566991363

11. $20.11 \times 9.96 = ?$

A) between 180 and 210
B) between 190 and 220
C) between 160 and 200
D) between 200 and 230

D	C	B	A

12. $16.12 \times 3.55 = ?$

A) between 45 and 64
B) between 48 and 68
C) between 50 and 70
D) between 48 and 64

D	C	B	A

13. Bryce is buying 4.3 kilograms of apples. The store charges $1.79 per kilogram for apples. About how much will the apples cost? Explain which estimation strategy you used.

A) about $6
B) about $10
C) about $8
D) about $12

D	C	B	A

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Question 18: Use patterns based on place value concepts and properties of operations to make generalizations about multiplying decimals

Page 193, 1-11

MCQ - Multiple Choice Questions

Complete each sentence.

1. 3.8 is _____ of 38.

So, 3.8 × 25 is _____ of the product 38 × 25.

A) $\frac{1}{100}$; $\frac{1}{100}$
B) $\frac{1}{10}$; $\frac{1}{10}$
C) 10; 10
D) $\frac{1}{10}$; $\frac{1}{100}$

D	C	B	A

2. 0.45 is _____ of 45.

So, 0.45 × 16 is _____ of the product 45 × 16.

A) $\frac{1}{10}$; $\frac{1}{10}$
B) $\frac{1}{1000}$; $\frac{1}{1000}$
C) $\frac{1}{100}$; $\frac{1}{100}$
D) 100; 100

D	C	B	A

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3. 7.8 is _____ of 78 and 9.2 is _____ of 92.

So, 7.8 × 9.2 is _____ of the product 78 × 92.

A) $\frac{1}{10}$; $\frac{1}{10}$; $\frac{1}{100}$
B) $\frac{1}{10}$; $\frac{1}{10}$; $\frac{1}{10}$
C) $\frac{1}{100}$; $\frac{1}{100}$; $\frac{1}{1000}$
D) $\frac{1}{100}$; $\frac{1}{10}$; $\frac{1}{1000}$

D	C	B	A

What is the product? Use patterns to solve.

4. 45 × 17 = 765

45 × 1.7 = _____

45 × 0.17 = _____

A) 76.5; 7.65
B) 7.65; 0.765
C) 765; 76.5
D) 76.5; 0.765

D	C	B	A

5. 32 × 14 = _____

32 × 1.4 = 44.8

3.2 × 1.4 = _____

A) 4, 480; 44.8
B) 448; 0.448
C) 448; 4.48
D) 484; 4.84

D	C	B	A

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6. $16 \times 89 = 1{,}424$

$16 \times 8.9 =$ _____

$16 \times 0.89 =$ _____

A) 14.24; 1.424
B) 142.4; 14.24
C) 142.4; 1.424
D) 1, 424; 142.4

D	C	B	A

7. $61 \times 22 =$ _____

$6.1 \times 22 = 134.2$

$6.1 \times 2.2 =$ _____

A) 13.42; 1.342
B) 1, 342; 134.2
C) 1, 342; 13.42
D) 134.2; 13.42

D	C	B	A

8. $96 \times 55 =$ _____

$96 \times 5.5 =$ _____

$9.6 \times 5.5 = 52.8$

A) 5, 280; 528
B) 528; 52.8
C) 5, 280; 52.8
D) 52, 800; 5, 280

D	C	B	A

9. $19 \times 42 =$ _____

$1.9 \times 42 = 79.8$

$1.9 \times 4.2 =$ _____

A) 7, 980; 79.8
B) 798; 79.8
C) 79.8; 7.98
D) 798; 7.98

D	C	B	A

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10. $67 \times 34 =$ _____
$67 \times 3.4 =$ _____
$6.7 \times 3.4 =$ _____

A) 2, 278; 227.8; 22.78
B) 227.8; 22.78; 2.278
C) 2, 278; 22.78; 2.278
D) 22, 780; 2, 278; 227.8

D	C	B	A

11. $82 \times 67 =$ _____
$82 \times 6.7 =$ _____
$8.2 \times 6.7 =$ _____

A) 549.4; 54.94; 5.494
B) 5, 494; 549.4; 54.94
C) 5, 494; 54.94; 5.494
D) 54, 940; 5, 494; 549.4

D	C	B	A

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Question 19: Use patterns to determine the quotient when dividing by a multiple of 10

Page 209, 1-10

MCQ - Multiple Choice Questions

Use a basic fact and patterns to solve.

1. $15 \div ____ = 5$

$150 \div 30 = ____$

$____ \div 30 = 50$

$15{,}000 \div ____ = ____$

A) 3; 50; 1,500; 300; 50
B) 5; 5; 1,500; 30; 500
C) 3; 5; 1,500; 30; 500
D) 3; 5; 150; 30; 50

D	C	B	A

2. $32 \div 8 = ____$

$____ \div 80 = ____$

$3{,}200 \div ____ = ____$

$____ \div ____ = ____$

A) 4; 320; 80; 32,000; 80
B) 4; 3,200; 8; 32,000; 800
C) 8; 320; 80; 32,000; 80
D) 4; 320; 800; 3,200; 8

D	C	B	A

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3. $20{,}000 \div 40 =$ _____

A) 50
B) 500
C) 5, 000
D) 200

D	C	B	A

4. $15{,}000 \div 30 =$ _____

A) 5, 000
B) 50
C) 300
D) 500

D	C	B	A

5. $18{,}000 \div 60 =$ _____

A) 300
B) 30
C) 3, 000
D) 600

D	C	B	A

6. $16{,}000 \div 80 =$ _____

A) 20
B) 2, 000
C) 200
D) 400

D	C	B	A

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7. $8{,}000 \div 40 =$ _____

A) 400
B) 200
C) 20
D) 2, 000

D	C	B	A

8. $25{,}000 \div 50 =$ _____

A) 50
B) 250
C) 5, 000
D) 500

D	C	B	A

9. $32{,}000 \div 80 =$ _____

A) 400
B) 40
C) 4, 000
D) 800

D	C	B	A

10. $9{,}000 \div 30 =$ _____

A) 30
B) 3, 000
C) 300
D) 600

D	C	B	A

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Question 20: Estimate quotients of multi-digit numbers to determine if calculations are reasonable

Page 213, 1-9

MCQ - Multiple Choice Questions

Estimate the quotient.

1. 2,400 ÷ 34

A) 60
B) 70
C) 80
D) 90

D	C	B	A

2. 3,500 ÷ 65

A) 50
B) 60
C) 40
D) 70

D	C	B	A

3. 1,800 ÷ 92

A) 30
B) 20
C) 200
D) 15

D	C	B	A

4. 4,800 ÷ 86

A) 50
B) 80
C) 40
D) 60

D	C	B	A

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5. $6{,}390 \div 31$

A) 200
B) 210
C) 300
D) 180

D	C	B	A

6. $4{,}988 \div 19$

A) 200
B) 300
C) 250
D) 150

D	C	B	A

7. $809 \div 10$

A) 90
B) 80
C) 800
D) 70

D	C	B	A

8. $9{,}598 \div 11$

A) 850
B) 900
C) $1,000$
D) 950

D	C	B	A

9. Error Analysis Cho writes this equation. Is her calculation reasonable? Explain.

A) Yes; rounding to $9,000 \div 30$ gives about $3,000$, which is close to $3,610$.
B) No; an estimated quotient is about 300 (e.g., $9,000 \div 30 = 300$), so $3,610$ is not reasonable.
C) Yes; because dividing a four-digit number by a two-digit number always yields a four-digit quotient.
D) No; the exact answer must end in 5, so it cannot be $3,610$.

D	C	B	A

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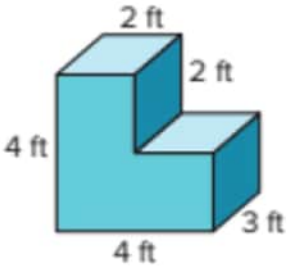
Question 21: Find the volume of composite figures

Page 49/48, learn + 1-5

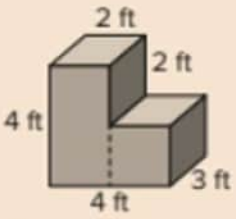
FRQ -Free Response Questions

Learn

How can you determine the volume of this figure?



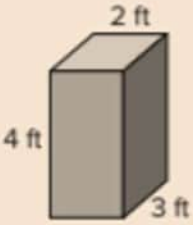
Look for a way to make two rectangular prisms.



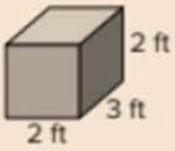
Math is... Connections

Why should the volume be the same whichever way you decompose a composite figure?

Determine the volume of each rectangular prism.



$V = 2 \times 3 \times 4$
$V = 24$ cubic ft

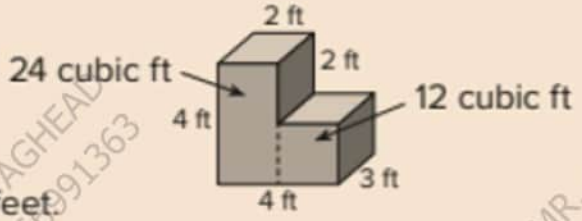


$V = 2 \times 3 \times 2$
$V = 12$ cubic ft

Add the volumes.

$24 + 12 = 36$

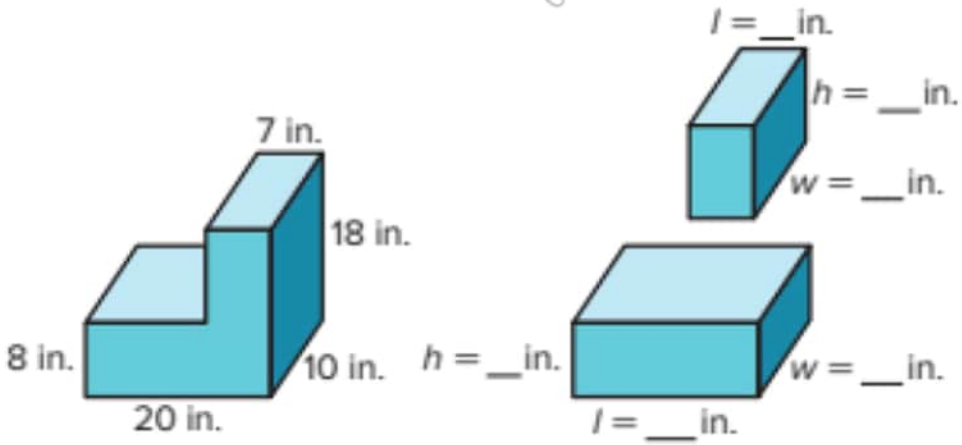
The volume of the figure is 36 cubic feet.

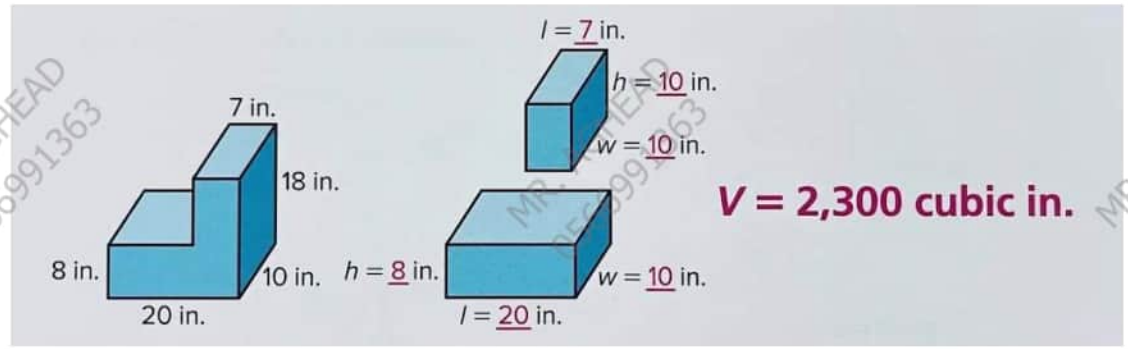


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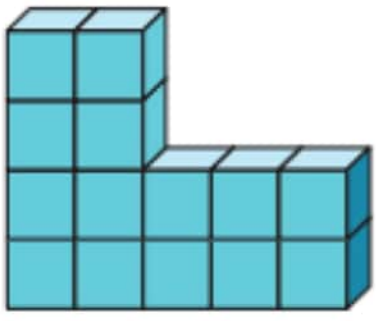
1. Label the unknown dimensions of the decomposed figure and then find the volume of the composite solid figure.





What is the volume of the figure?

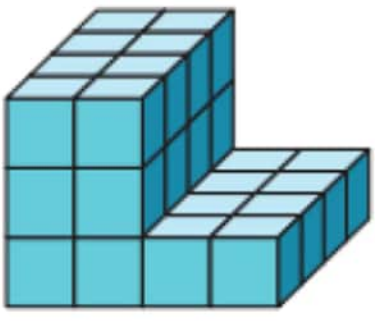
2.



$V =$ _____ cubic units

14

3.



$V =$ _____ cubic units

32

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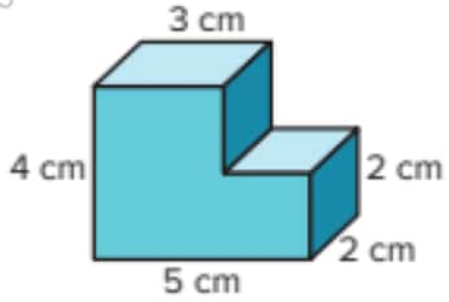
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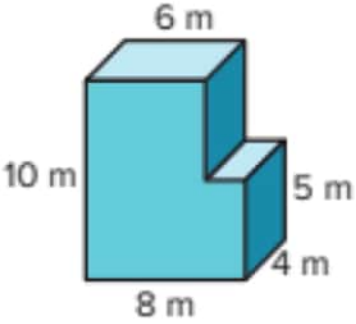
Draw line(s) to show how you decomposed the figure. What is the volume of the figure?

4.



$V =$ 32 cubic cm

5.



$V =$ 280 cubic m

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Question 22: Compare two decimals to the thousandths place using place value

Page 76 + 77, learn + 1-9

FRQ -Free Response Questions

Learn

Which bag weighs more?



3.281 kg 3.095 kg

ones	tenths	hundredths	thousandths
3	2	8	1
3	0	9	5

Both numbers have 3 ones.

2 tenths > 0 tenths

Math is... Thinking

Why was it not necessary to compare the hundredths place?

3.281 > 3.095. So, the purple bag weighs more than the red bag.

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Write >, <, or = in each ◯ to make a true comparison. You can use a place-value chart to help.

1. 7.790 ◯ 8.7
2. 1.021 ◯ 1.095
3. 6.55 ◯ 5.66
4. 9.9 ◯ 0.99
5. 3.41 ◯ 3.41
6. 2.563 ◯ 2.573

1. 7.790 < 8.7
2. 1.021 < 1.095
3. 6.55 > 5.66
4. 9.9 > 0.99
5. 3.41 = 3.41
6. 2.563 < 2.573

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احصل على الشرح كاملاً بـ 99 درهم فقط

For exercises 7–9, use the cost of each school supply.



7. Do the pencils or the highlighters cost more?

highlighters

8. Write a comparison statement for the cost of the pens and the pencils.

$1.15 < 1.47$

9. Which school supply is the most expensive? Which school supply is the least expensive? Explain how you know.

Highlighters are the most expensive; Pens are the least expensive; Sample answer: 9 tenths is greater than 4 tenths and greater than 1 tenth.

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Question 23: Use strategies to add decimals, Represent subtraction of decimals less than 1 containing hundredths

Page 108 + 109 + 113, learn + 1-9 + 1-7

FRQ -Free Response Questions

Learn

How can you determine the total cost of the helicopter and robot?



$17.31



$12.45

Math is... Modeling

What equation can you use to represent the problem?

▶ One Way Decompose by place value.

$17.31 + 12.45 = c$

$10 + 7 + 0.3 + 0.01 \qquad 10 + 2 + 0.4 + 0.05$

$10 + 10 = 20$
$7 + 2 = 9$
$0.3 + 0.4 = 0.7$
$0.01 + 0.05 = 0.06$

Find partial sums

Add partial sums to find the sum

$20 + 9 + 0.7 + 0.06 = 29.76$

▶ Another Way Decompose into whole numbers and decimals.

$17.31 + 12.45 = c$

$17 + 0.31 \qquad 12 + 0.45$

$17 + 12 = 29$
$0.31 + 0.45 = 0.76$

Find partial sums

Add partial sums to find the sum

$29 + 0.76 = 29.76$

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What is the sum? Use partial sums to solve.

1. $2.57 + 8.4$
   $= 2 + 0.5 + 0.07 + 8 + 0.4$
   $=$ _____

2. $6.9 + 0.31$
   $= 6 + 0.9 + 0.3 + 0.01$
   $=$ _____

3. $35.12 + 64.73 =$ _____

4. $70.34 + 21.52 =$ _____

5. $14.53 + 11.2 =$ _____

6. $104.75 + 21.9 =$ _____

1. $2.57 + 8.4$
   $= 2 + 0.5 + 0.07 + 8 + 0.4$
   $= 10.97$

2. $6.9 + 0.31$
   $= 6 + 0.9 + 0.3 + 0.01$
   $= 7.21$

3. $35.12 + 64.73 = 99.85$

4. $70.34 + 21.52 = 91.86$

5. $14.53 + 11.2 = 25.73$

6. $104.75 + 21.9 = 126.65$

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للتواصل اضغط الرقم:
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7. Mattis earns $22.50 shoveling snow. Later, he finds $0.82 in his backpack. How much money does he have now?

$23.32

8. Josh's suitcase weighs 13.4 pounds. Karen's suitcase weighs 21.63 pounds. What is the total weight of the two suitcases?

35.03 lb

9. Kim's goal was to run at least 10 miles this week to train for her cross-country race. On Tuesday she ran 3.57 miles, and on Wednesday she ran 6.48 miles. Did Kim reach her goal? Explain.

Yes. Sample answer: She ran 10.05 miles.

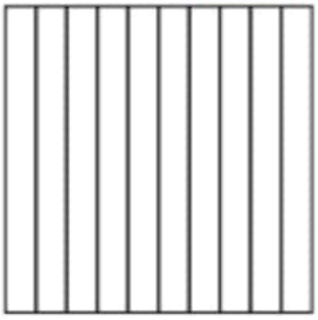
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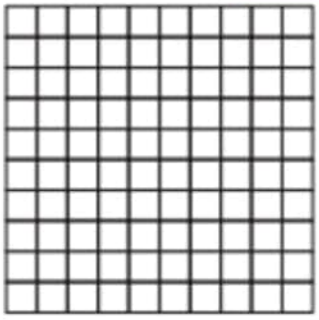
احصل على الشرح كاملاً بـ 99 درهم فقط

What is the difference? Use the decimal grid to solve.

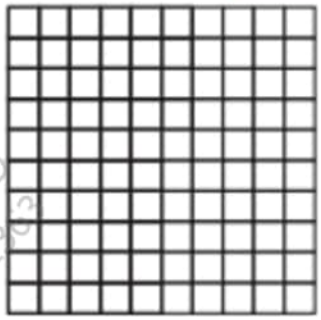
1. $0.7 - 0.1 =$ _____



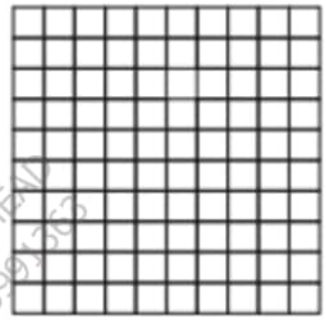
2. $0.09 - 0.02 =$ _____



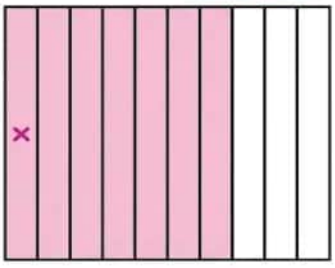
3. $0.54 - 0.38 =$ _____



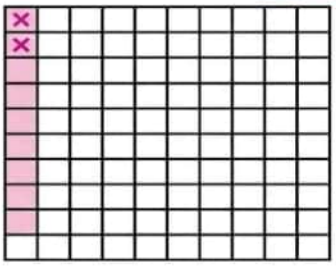
4. $0.25 - 0.11 =$ _____



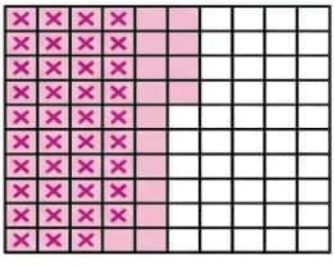
1. $0.7 - 0.1 =$ **0.6**



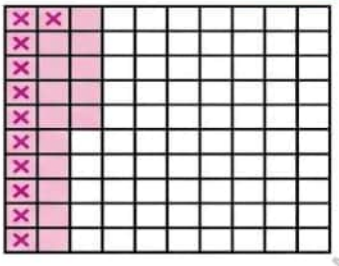
2. $0.09 - 0.02 =$ **0.07**



3. $0.54 - 0.38 =$ **0.16**



4. $0.25 - 0.11 =$ **0.14**



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احصل على الشرح كاملاً بـ 99 درهم فقط

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What is the difference? Use a number line to solve.

5. $0.7 - 0.2 =$ _____

0.5

6. $0.6 - 0.4 =$ _____

0.2

7. Malik has $0.85. He bought a pencil for $0.50. Does he have enough money left to buy a folder for $0.30? Explain.

Yes. Sample answer: Malik has $0.35 left, so he can buy the folder.

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Question 24: Explain how to estimate products of multi-digit factors,
Use partial products to help multiply multi-digit factors

Page 144 + 145 + 153, learn + 1-9 + 1-8

FRQ -Free Response Questions

Learn

On Saturday, 432 people go to the theater.

About how much money does the theater collect on Saturday?



One Way Compatible numbers

432×13

$400 \times 15 = 4 \times 100 \times 15$
$= 4 \times 15 \times 100$
$= 6{,}000$

The theater collects about $6,000.

Another Way Rounded factors

432×13

$430 \times 10 = 4{,}300$

The theater collects about $4,300.

Math is... Choosing Tools

What can and can't an estimated product tell you?

A reasonable estimate is between $4,300 and $6,000.

You can use these estimates to determine that the calculated solution of $5,616 is a reasonable answer.

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Estimate the product.

1. 643 × 18

2. 325 × 62

3. 438 × 27

4. 572 × 49

1. 643 × 18
600 × 20 = 12,000

2. 325 × 62
300 × 70 = 21,000

3. 438 × 27
400 × 30 = 12,000

4. 572 × 49
600 × 50 = 30,000

5. On a school trip, 54 students went to a museum. Each ticket cost $23. About how much did all students spend on tickets?
Sample answer: 50 × 20 = $1000

6. The town library has 478 shelves. Each shelf holds 38 books. About how many books does the library have?
Sample answer: 500 × 40 = 20,000

7. A vendor at a fair is selling her paintings for $23 each. Over the course of the fair, 339 people purchase her paintings. About how much did the vendor earn over the course of the fair?
Sample answer: 300 × 20 = $6,000

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8. The fifth graders sold 405 baked goods at the bake sale. About how much did the fifth graders earn?



Sample answer:
$10 \times 400 = \$4{,}000$

9. **Error Analysis** Han estimates that the product of 492 and 32 will be 1,200. How do you respond to Han?

Sample answer: I do not agree with Han. Using compatible numbers, 500×30 gives an estimate of 15,000.

Find the unknown partial products. Then find the product.

1.
$$\begin{array}{r} 325 \\ \times\ 73 \\ \hline 21{,}000 \\ 1{,}400 \\ 350 \\ \square \\ \square \\ +\ \square \\ \hline \square \end{array}$$

2.
$$\begin{array}{r} 104 \\ \times\ 28 \\ \hline 32 \\ 800 \\ \square \\ +\ \square \\ \hline \square \end{array}$$

1.
$$\begin{array}{r} 325 \\ \times\ 73 \\ \hline 21{,}000 \\ 1{,}400 \\ 350 \\ 900 \\ 60 \\ +\ 15 \\ \hline 23{,}725 \end{array}$$

2.
$$\begin{array}{r} 104 \\ \times\ 28 \\ \hline 32 \\ 800 \\ 80 \\ +2{,}000 \\ \hline 2{,}912 \end{array}$$

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What is the product? Use partial products to solve.

3. 17 × 86

4. 24 × 129

5. 36 × 93

6. 222 × 58

3. 17 × 86 = **1,462**

4. 24 × 129 = **3,096**

5. 36 × 93 = **3,348**

6. 222 × 58 = **12,876**

7. A sporting goods store sold 24 mountain bikes. How much money did they make selling bikes?

$5,976



8. The store also sold 12 mountain bike and scooter packages each for $367. How much money did they make?

$4,404

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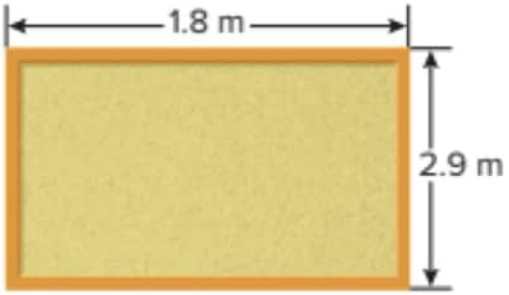
احصل على الشرح كاملاً بـ 99 درهم فقط

Question 25: Use an area model to determine partial products, Use partial quotients to solve division problems, which sometimes include a remainder

Page 188 + 189 + 228 + 229, learn + 1-9 + learn + 1-5

FRQ -Free Response Questions

How can you find the area of the board?



You can use the equation $1.8 \times 2.9 = A$ to represent the problem.

You can use an area model to help you solve the equation.

Decompose each factor and find partial products.

Decompose by place value.

	2	+	0.9
1	$2 \times 1 = 2$		$0.9 \times 1 = 0.9$
+			
0.8	$2 \times 0.8 = 1.6$		$0.9 \times 0.8 = 0.72$

Find partial products by finding the area of each rectangle.

Add partial products.

$2 + 0.9 + 1.6 + 0.72 = 5.22$

The area of the board is 5.22 square meters.

Math is... Modeling

How are the area models for decimals and whole numbers similar?

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What is the product? Use an area model to solve.

1. $32 \times 1.5 =$ _____

2. $14 \times 2.3 =$ _____

3. $7.1 \times 8 =$ _____

4. $6.2 \times 1.5 =$ _____

5. $9.6 \times 5.5 =$ _____

6. $1.9 \times 2.4 =$ _____

1. $32 \times 1.5 = 48$

2. $14 \times 2.3 = 32.2$

3. $7.1 \times 8 = 56.8$

4. $6.2 \times 1.5 = 9.3$

5. $9.6 \times 5.5 = 52.8$

6. $1.9 \times 2.4 = 4.56$

7. A tent repair shop charges $9.50 for every 1 meter of stitching repaired on a tent. Michael brings in his tent for repairs. It needs 1.2 meters of stitching. How much will the repairs cost him?

Sample answer:
$9.5 \times 1.2 = ?$
$9 + 1.8 + 0.5 + 0.1 = 11.4$
The repairs will cost Michael $11.40

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احصل على الشرح كاملاً بـ 99 درهم فقط

8. Error Analysis Evelyn used an area model to multiply 7.4 × 1.2 as shown. How do you respond to her work?

	1	+	2
7	$7 \times 1 = 7$		$7 \times 2 = 14$
+			
4	$4 \times 1 = 4$		$4 \times 2 = 8$

$$7 + 14 + 4 + 8 = 33$$

Sample answer: I disagree with Evelyn's work. I would write the value of each digit when setting up the area model (1 + 0.2, 7 + 0.4). Then multiply to find the partial products. 7 + 1.4 + 0.4 + 0.08 = 8.88

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Learn

Rahim will fill bags with tortillas. He has bags that hold 12 tortillas and bags that hold 16 tortillas.

Which size bag should he use if he wants no tortillas left over?



276 tortillas

If Rahim uses the bags that hold 16 tortillas,
$276 \div 16 = b$.

$$\begin{array}{r|l} 16\overline{)276} & \\ -160 & 10 \\ \hline 116 & \\ -112 & 7 \\ \hline 4 & 17 \end{array}$$

The remainder is 4.

He will have 4 tortillas left over.

Math is... Reasonableness

How can you check your solution when there is a remainder?

If Rahim uses the bags that hold 12 tortillas,
$276 \div 12 = t$.

$$\begin{array}{r|l} 12\overline{)276} & \\ -240 & 20 \\ \hline 36 & \\ -36 & 3 \\ \hline 0 & 23 \end{array}$$

The remainder is 0.

He will have no tortillas left over.

Rahim should use bags of 12 tortillas.

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احصل على الشرح كاملاً بـ 99 درهم فقط

What is the quotient?

1. $754 \div 13 =$ _____

2. $1{,}426 \div 46 =$ _____

1. $754 \div 13 =$ 58

2. $1{,}426 \div 46 =$ 31

3. $975 \div 64 =$ _____

4. $2{,}246 \div 27 =$ _____

3. $975 \div 64 =$ 15 R15

4. $2{,}246 \div 27 =$ 83 R5

5. **Error Analysis** Is this division correct? If not, explain the error and find the correct quotient.

$$
\begin{array}{r|l}
84\overline{)3{,}115} & \\
-2{,}520 & 30 \\
\hline
595 & \\
-504 & 6 \\
\hline
91 & 36
\end{array}
$$

The remainder is greater than the divisor, so the division cannot be correct. The quotient should be 37 R7.

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النهاية ...