هيكل مراجعة أسئلة مع الحلول (محلول)



تم تحميل هذا الملف من موقع المناهج الإماراتية	
موقع المناهج ⇦ المناهج الإماراتية ⇦ الصف السابع ⇦ رياضيات ⇦ الفصل الأول ⇦ ملفات متنوعة ⇦ الملف	
تاريخ إضافة الملف على موقع المناهج: 2026-11-08 13:14:16	
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

التواصل الاجتماعي بحسب الصف السابع					
صفحة المناهج الإماراتية على فيسبوك					
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المزيد من الملفات بحسب الصف السابع والمادة رياضيات في الفصل الأول	
1	تجميع هيكل الرياضيات مع الحل - منهج عربي 2027
2	تجميع هيكل الرياضيات بدون حل - منهج عربي 2027
3	الهيكل الوزاري المعتمد ريفيل للسابع المتقدم 2027
4	الهيكل الوزاري المعتمد ريفيل 2027
5	الهيكل الوزاري المعتمد بريدج 2027

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



وزارة التربية والتعليم
MINISTRY OF EDUCATION

هيكل رياضيات الصف السابع عام ريفيل
الفصل الأول للعام 2026-2027

اِحجِزْ مَكانَكَ وَاستَعِدَّ لِلْاِمتِحَانِ بِثِقَةٍ كَامِلَةٍ

احصل على الشرح الكامل للصف من خلال:

التواصل والحجز عبر الـ Whatsapp
اضغط على الرقم: 0566991363



للانتقال إلى المواقع
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للتواصل والحجز

شرح الدروس

انضم للقناة

Mr. Aghead

MR. AGHEAD 0566991363

يمكنكم الحصول على



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Q1: Find unit rates when one or both quantities are fractions

page: 11, (1-6)

الأسئلة الموضوعية - MCQ

1. A truck driver drove 48 miles in 45 minutes. At this rate, how many miles can the truck driver drive in one hour? (Example 1)

A) 54 miles

B) 60 miles

C) 64 miles

D) 72 miles

D	C	B	A

2. Russell runs $\frac{9}{10}$ mile in 5 minutes. At this rate, how many miles can he run in one minute? (Example 1)

A) $\frac{9}{50}$ mi

B) $\frac{9}{2}$ mi

C) $4\frac{1}{2}$ mi

D) $\frac{10}{45}$ mi

D	C	B	A

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3. A small airplane flew 104 miles in 50 minutes. At this rate, how many miles can it fly in one hour? *(50 minutes $= \frac{5}{6}$ hour)* (Example 1)

A) 115.2 miles

B) 124.8 miles

C) 135 miles

D) 140 miles

D	C	B	A

4. DeAndre downloaded 8 apps onto his tablet in 12 seconds. At this rate, how many apps could he download in one minute?

(12 seconds $= \frac{1}{5}$ minute) (Example 1)

A) 24 apps

B) 32 apps

C) 40 apps

D) 48 apps

D	C	B	A

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5. In Lixue's garden, the green pepper plants grew 5 inches in $\frac{3}{4}$ month. At this rate, how many feet can they grow in one month?
(Let 5 inches $= \frac{5}{9}$ foot) (Example 2)

A) $\frac{5}{12}$ foot
B) $\frac{5}{9}$ foot
C) $\frac{20}{27}$ foot
D) $\frac{9}{12}$ foot

D	C	B	A

6. Thunder from a bolt of lightning travels $\frac{1}{10}$ mile in $\frac{1}{2}$ second. At this rate, how many miles can it travel in one second? (Example 2)

A) $\frac{1}{20}$ mile
B) $\frac{1}{5}$ mile
C) $\frac{2}{5}$ mile
D) $\frac{1}{2}$ mile

D	C	B	A

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Q2: Determine whether two quantities shown in a table are in a proportional relationship by testing for equivalent ratios

page: 29,30 (5-10)

الأسئلة الموضوعية - MCQ

5. Rocko paid $12.50 for 25 game tickets. Louisa paid $17.50 for 35 game tickets. What is the constant of proportionality? (Example 3)

A	3.1
B	0.50
C	1.75
D	2.1

6. A baker, in 70 minutes, iced 40 cupcakes and, in 49 minutes, iced 28 cupcakes. What is the constant of proportionality? (Example 3)

A	3.1
B	0.50
C	1.75
D	2.1

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7. The table shows the amount of dietary fiber in bananas. Use the table to find the constant of proportionality. (Example 4)

Dietary Fiber (g)	9.3	18.6	27.9	37.2
Bananas	3	6	9	12

A	3.1
B	0.50
C	1.75
D	2.1

8. Open Response The table shows the distance traveled by a runner. Use the table to find the constant of proportionality.

Distance (mi)	4.55	13.65	22.75	31.85
Time (h)	0.5	1.5	2.5	3.5

A) 4.55
B) 8.2
C) 9.1
D) 10.5

D	C	B	A

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9. The table shows the amount a restaurant is donating to a local school based on various dinner bills. Is the amount of the donation proportional to the dinner bill? If so, what would be the donation for a dinner bill of $50? If not, explain.

Donations	
Dinner Bill ($)	Donation ($)
25	4.50
30	5.40
35	6.30
40	7.20

A) yes; $9.00

B) yes; $8.50

C) no; The ratios between the quantities are not equal.

D) yes; $10.00

D	C	B	A

10. The table shows the cost to mail various letters based on different weights. Is the cost of mailing a letter proportional to the weight? If so, what would be the cost of mailing a 6-ounce letter? If not, explain.

Mailing Costs	
Weight (oz)	Cost ($)
1	0.47
2	0.68
3	0.89
4	1.10

A) yes; $2.82

B) no; The ratios between the quantities are not equal.

C) yes; $1.65

D) no; The cost decreases as weight increases.

D	C	B	A

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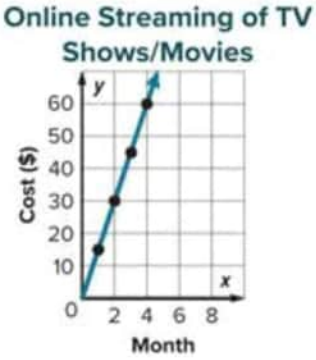
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Q3: Explain what the points (0, 0) and (1, r) mean on the graph of a proportional relationship

page: 39 (3-4)

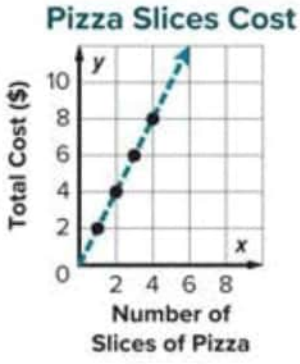
الأسئلة الموضوعية - MCQ

3. The total cost of online streaming is proportional to the number of months. What is the constant of proportionality? (Example 3)



A	5
B	10
C	15
D	20

4. Open Response The cost per slice of pizza is proportional to the number of slices as shown in the graph. What do the points (0, 0) and (1, 2) represent? (Example 4)



A) The point $(0, 0)$ represents 0 slices cost $\$0$. The point $(1, 2)$ represents 1 slice costs $\$2$.

B) The point $(0, 0)$ represents 1 slice costs $\$0$. The point $(1, 2)$ represents 2 slices cost $\$1$.

C) The point $(0, 0)$ represents free pizza for everyone. The point $(1, 2)$ represents the tax rate.

D) The point $(0, 0)$ represents the starting fee. The point $(1, 2)$ represents the unit rate of delivery.

D	C	B	A

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Q4: Identify the constant of proportionality in the equation representing a proportional relationship

page: 47 (1-2)

MCQ - الأسئلة الموضوعية

1. Liv earns $9.50 for every two bracelets she sells. The equation y = 4.75x, where x represents the number of bracelets and y represents the total cost in dollars earned, represents this situation. What is the constant of proportionality? What does the constant of proportionality represent in the context of the problem? (Example 1)

A) 4.75; Liv earns $4.75 for each bracelet she sells.

B) 9.50; Liv earns $9.50 for each bracelet.

C) 2; Liv sells 2 bracelets per hour.

D) 4.75; Liv spends $4.75 per bracelet.

D	C	B	A

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2. John ran 3 miles in 25.5 minutes. The equation $y = 8.5x$, where x represents the number of miles and y represents the total time in minutes, represents this situation. What is the constant of proportionality? What does the constant of proportionality represent in the context of the problem?
(Example 1)

A) 3; It takes John 3 minutes to run 1 mile.

B) 25.5; John runs 25.5 miles per minute.

C) 8.5; It takes John 8.5 minutes to run 1 mile.

D) 8.5; John runs 8.5 miles per minute.

D	C	B	A

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Q5: Write equations to represent proportional relationships

page: 47 (3-6)

MCQ - الأسئلة الموضوعية

3. Lincoln bought 3 bottles of an energy drink for $4.50. Write an equation relating the total cost y to the number of energy drinks bought x. (Example 2)

A	y= 1.8x
B	y= 15x
C	y= 18x
D	y= 1.5x

4. The total cost of renting a cotton candy machine for 4 hours is $72. What equation can be used to model the total cost y for renting the cotton candy machine x hours? (Example 2)

A	y= 1.8x
B	y= 15x
C	y= 18x
D	y= 1.5x

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5. Marley used 7 cups of water to make 4 loaves of French bread. What equation can be used to model the total cups of water needed y for making x loaves of French bread? How many cups of water do you need for 6 loaves of French bread?

A) $y = 1.75x; 10\frac{1}{2}$ c

B) $y = 2.25x; 12$ c

C) $y = 1.25x; 7\frac{1}{2}$ c

D) $y = 4x; 24$ c

D	C	B	A

6. Mrs. Henderson used $6\frac{3}{4}$ yards of fabric to make 3 elf costumes. What equation can be used to model the total number of yards of fabric *y* for *x* costumes? How many yards of fabric do you need for 7 elf costumes? (Example 3)

A) $y = 2x; 14$ yd

B) $y = 2\frac{1}{4}x; 15\frac{3}{4}$ yd

C) $y = 3\frac{1}{2}x; 24\frac{1}{2}$ yd

D) $y = 6\frac{3}{4}x; 20$ yd

D	C	B	A

Q6: Use proportional relationships to solve percent error problems

page: 119 (1-4)

MCQ - الأسئلة الموضوعية

1. Doug estimates that his soccer team will win 7 games this year. The team actually wins 10 games. What is the percent error of Doug's estimate? Round the answer to the nearest tenth percent, if necessary.

A	12.3 %
B	30 %
C	36.9 %
D	52.4 %

2. A mayor estimates that 4,000 people will attend the first day of the county fair. A total of 8,400 people actually attend the first day of the fair. What is the percent error of the mayor's estimate? Round the answer to the nearest tenth percent, if necessary.

A	12.3 %
B	30 %
C	36.9 %
D	52.4 %

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3. Maya estimates that the wait time for her favorite roller coaster is 35 minutes. The actual wait time is 55.5 minutes. What is the percent error of Maya's estimate? Round the answer to the nearest tenth of a percent, if necessary.

A	12.3 %
B	30 %
C	36.9 %
D	52.4 %

4. Oliver estimates the weight of his cat to be 16 pounds. The actual weight of his cat is 14.25 pounds. What is the percent error of Oliver's estimate rounded to the nearest tenth of a percent

A	12.3 %
B	30 %
C	36.9 %
D	52.4 %

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Q7: Use proportional relationships to solve percent of change problems

page: 71 (1-5)

الأسئلة الموضوعية - MCQ

1. 8 feet to 10 feet (Examples 1-3)

A	37.5% decrease
B	25% increase
C	37.5% increase
D	50% decrease

2. 62 trees to 31 trees (Examples 1-3)

A	37.5% decrease
B	25% increase
C	37.5% increase
D	50% decrease

3. 136 days to 85 days (Examples 1-3)

A	37.5% decrease
B	25% increase
C	37.5% increase
D	50% decrease

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4. Last month, the online price of a powered ride-on car was $250. This month, the online price is $330. What is the percent of increase for the price of the car? (Example 1)

A	32%
B	48.5%
C	30%
D	10.7%

5. At end of the first half of a football game, Nathan had carried the ball for 50.5 yards. By the end of the game, he carried the ball for a total of 75 yards. Find the percent of increase in the number of yards he carried. Round to the nearest whole tenth if necessary. (Example 1)

A	32%
B	48.5%
C	30%
D	10.7%

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Q8: Use proportional relationships to find the amount of tax charged for an item

page: 81 (1-5)

الأسئلة الموضوعية - MCQ

1. $18 breakfast; 7% tax (Examples 1-3)

A	52.45 $
B	71.74 $
C	25.44 $
D	19.26 $

2. $24 shirt; 6% tax (Examples 1-3)

A	52.45 $
B	71.74 $
C	25.44 $
D	19.26 $

3. $49.95 pair of shoes; 5% tax (Examples 1-3)

A	52.45 $
B	71.74 $
C	25.44 $
D	19.26 $

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4. Emily wants to buy new boots that cost $68. The sales tax rate in her city is $5\frac{1}{2}$%. What is the total cost for the boots? (Example 1)

A	52.45 $
B	71.74 $
C	25.44 $
D	19.26 $

5. Jack wants to buy a coat that costs $74.95. The sales tax rate in his city is $6\frac{1}{2}$%. What is the total cost for the coat? (Example 1)

A	32.66 $
B	79.82 $
C	235.20 $
D	359.13 $

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Q9: Use proportional relationships to find the amount of discount or markdown

page: 91/97, learn + (1-5)

MCQ - الأسئلة الموضوعية

1. What is the amount by which the regular price of an item is reduced?

A) Markup
B) Sale price
C) Discount or markdown
D) Percent of increase

D	C	B	A

2. How is the sale price calculated?

A) original price + discount
B) original price − discount
C) original price × discount
D) discount − original price

D	C	B	A

3. The percent of discount represents a:

A) Percent of decrease
B) Percent of increase
C) Constant of proportionality
D) Simple interest rate

D	C	B	A

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1. $140 coat; 10% discount (Example 1)

A	126 $
B	59.40 $
C	60 $
D	276.25 $

2. $80 boots; 25% discount (Example 1)

A	126 $
B	59.40 $
C	60 $
D	276.25 $

3. $325 tent; 15% discount (Example 1)

A	126 $
B	59.40 $
C	60 $
D	276.25 $

4. A toy store is having a sale. A video game system has an original price of $99. It is on sale for 40% off the original price. Find the sale price of the game system. Round to the nearest cent. (Example 1)

A	126 $
B	59.40 $
C	60 $
D	276.25 $

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5. A yearly coffee club subscription costs $65. Avery received an offer for 62% off the subscription cost. What is the sale price of the subscription? Round to the nearest cent. (Example 1)

A	375.15 $
B	24.70 $
C	160.42 $
D	62.74 $

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Q10: Use the simple interest formula to find the amount of interest earned for a given principal, at a given interest rate, for a given period of time page: 106 (13-16)

الأسئلة الموضوعية - MCQ

13. **Persevere with Problems** Suppose Serena invests $2,500 for 3 years and 6 months and earns $328.13. What was the rate of interest? Explain how you solved.

A) 2.5%
B) 3.75%
C) 4.25%
D) 5.0%

D	C	B	A

14. A student stated that an interest rate could not be less than 1%. Do you agree? Why or why not?

A) yes; Interest rates are always whole numbers or greater than 1%
B) no; A percent such as an interest rate can be less than 1%, for example, 0.5%
C) yes; Banks never offer rates below 1% under any circumstances
D) no; Rates are always negative in investment accounts

D	C	B	A

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15. **Justify Conclusions** Suppose you earn 2% on $1,000 for 2 years. Explain how the simple interest is affected if the rate is doubled. What happens if the time is doubled?

A) In both cases, the interest is doubled to $80

B) The interest is quadrupled to $160 in both cases

C) The interest remains unchanged at $40

D) Doubling the rate doubles the interest to $80, but doubling the time halves it to $20

D	C	B	A

16. Name a principal and interest rate where the amount of simple interest earned in 10 years would be $200. Justify your answer.

A) $1,000 at 2%

B) $2,000 at 2%

C) $500 at 5%

D) $1,000 at 4%

D	C	B	A

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Q11: Use different methods, including algebra tiles, number lines, or the additive inverse, to subtract integers

page: 147 (4-9)

MCQ - الأسئلة الموضوعية

4. 28 - 14

A. 11
B. 14
C. 12
D. 15

5. -10 - 0

A. 3
B. 10
C. -10
D. -5

6. -33 - 33

A. 33
B. -33
C. 66
D. -66

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7. -18 - (-12)

A. -6
B. 6
C. -12
D. 22

8. -28 - (-13)

A. 15
B. -15
C. 22
D. -22

9. -18 - (-40)

A. 25
B. 42
C. 22
D. 23

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Q12: Use number lines and mathematical properties to multiply integers

page: 157 (3-8)

MCQ - الأسئلة الموضوعية

3. 9(-12)

A. 123
B. -108
C. -22
D. -231

4. - 6(-8)

A. 454
B. 46
C. 48
D. 55

5. - 10(-10)

A. -100
B. -123
C. 10
D. 100

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6. - 11(-13)

A. 143
B. 321
C. 214
D. 133

7. 7(-5)(4)

A. 140
B. -140
C. -234
D. 232

8. (-8)(-7)(3)

A. 123
B. -168
C. 168
D. -145

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Q13: Use number lines and mathematical properties to multiply integers

page: 157 (10-13)

الأسئلة الموضوعية - MCQ

10. Evaluate ab if a = –16 and b = -5.

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

11. Evaluate xy if x = -10 and y = –7.

A. 32
B. 70
C. 88
D. 89

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12. Evaluate xyz if x = –2, y = 7 , and z = -4.

A. 123
B. -224
C. 56
D. -421

13. Evaluate a^2bc if a = 3, b = –14, and c = -6.

A. 754
B. 123
C. 756
D. 252

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Q14: Use a related multiplication sentence to divide integers

page: 165 (3-5)

MCQ - الأسئلة الموضوعية

3. 75 ÷ (-3)

A. 12
B. -12
C. 25
D. -25

4. -64 ÷ (-8)

A. 8
B. -8
C. 9
D. -9

5. -39 ÷ (-13)

A. -3
B. 3
C. 4
D. -4

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Q15: Convert fractions to decimal equivalents using division

page: 178, 183, learn + (1-6)

MCQ - الأسئلة الموضوعية

1. What is the decimal $0.11111\ldots$ written using bar notation?

A) $0.\bar{1}$

B) $0.1\bar{1}$

C) $0.\overline{11}$

D) $1.\bar{1}$

D	C	B	A

2. What is the decimal $0.61111\ldots$ written using bar notation?

A) $0.\overline{61}$

B) $0.6\bar{1}$

C) $0.\bar{6}1$

D) 0.61

D	C	B	A

3. What is the decimal $0.616161\ldots$ written using bar notation?

A) $0.6\bar{1}$

B) $0.\bar{6}1$

C) $0.\overline{61}$

D) 0.61

D	C	B	A

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4. What is the decimal $6.160000\ldots$ written using bar notation?

A) $6.\overline{160}$

B) $6.16\bar{0}$

C) $6.1\bar{6}0$

D) $6.\bar{1}60$

D	C	B	A

5. What is the decimal $6.1611611611\ldots$ written using bar notation?

A) $6.1\bar{6}1$

B) $6.\overline{16}$

C) $6.1\overline{61}$

D) $6.\overline{161}$

D	C	B	A

Write each fraction as a decimal. Determine if the decimal is a terminating decimal.

1. $\frac{5}{8}$

A. 0.825 terminating
B. 0.625 terminating
C. 0.625 non - terminating
D. 0.825 non - terminating

2. $-\frac{3}{4}$

A. 0.75 non terminating
B. 0.75 terminating
C. -0.75 terminating
D. -0.75 non - terminating

3. $\frac{2}{9}$

A. $0.\overline{2}$ terminating
B. $0.\overline{4}$ non terminating
C. 0.3 terminating
D. $0.\overline{2}$ non terminating

4. $-\frac{5}{6}$

A. -0.83 non terminating
B. 0.83 non terminating
C. -0.83 terminating
D. 0.83 terminating

5. $-\frac{4}{5}$

A. -0.8 non terminating
B. -0.8 terminating
C. 0.8 terminating
D.0.8 non terminating

6. $\frac{23}{50}$

A. 0.4 terminating
B. 0.25 terminating
C. 0.46 terminating
D. -0.45 terminating

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Q16: Find the additive inverse of a rational number

page: 195 (1-4)

الأسئلة الموضوعية - MCQ

Find the additive inverse of each rational number.

1. $-\frac{1}{2}$

A. $\frac{1}{2}$
B. $-\frac{1}{2}$
C. $\frac{1}{3}$
D. $-\frac{2}{2}$

2. 0.25

A. -0.12
B. -0.25
C. 0.12
D. 2.2

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3. $\frac{9}{10}$

A. $\frac{8}{10}$
B. $\frac{2}{10}$
C. $-\frac{9}{10}$
D. $\frac{9}{10}$

4. - 0.4

A. 0.1
B. 0.32
C. 0.3
D. 0.4

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Q17: Find the additive inverse of a rational number

page: 195 (7-14)

MCQ - الأسئلة الموضوعية

Add. Write in simplest form:

7. $3\frac{5}{6} + \left(-1\frac{1}{6}\right)$

A. $4.\overline{6}$
B. $3.\overline{6}$
C. $2.\overline{6}$
D. $1\overline{6}$

8. $-13\frac{1}{4} + 4\frac{1}{4}$

A. 2.25
B. -1.25
C. -0.25
D. -2.25

9. $-\frac{2}{3} + 2\frac{3}{8}$

A. $1.708\overline{3}$
B. $2.708\overline{3}$
C. $3.708\overline{3}$
D. $4.708\overline{3}$

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10. $2\frac{1}{2}+(-\frac{1}{3})$

A. $-\frac{13}{6}$
B. $\frac{13}{6}$
C. $\frac{12}{6}$
D. $\frac{13}{7}$

11. $-3.7+\frac{1}{4}$

A. -23.45
B. -2.45
C. -3.45
D. 3.45

12. $\frac{1}{3}+4.1$

A. $2.4\overline{3}$
B. $1.4\overline{3}$
C. $3.4\overline{3}$
D. $4.4\overline{3}$

13. $-1\frac{1}{4}+0.75+0.45$

A. -0.05
B. 0.05
C. 1.05
D. -1.05

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14. $-0.25 + 3\frac{1}{6} + (2\frac{1}{12})$

A. 6
B. 5
C. 3
D. 2

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Q18: Subtract rational numbers by adding the additive inverse

page: 201 (7-12)

الأسئلة الموضوعية - MCQ

7. $-\frac{7}{8}-2\frac{1}{6}$

A. $-2\frac{1}{24}$
B. $-3\frac{1}{24}$
C. $2\frac{1}{24}$
D. $3\frac{1}{24}$

8. $-\frac{8}{15}-(3\frac{4}{5})$

A. $-6.\overline{33}$
B. $-2.\overline{33}$
C. $-4.\overline{33}$
D. $-1.\overline{33}$

9. $-9\frac{7}{10}-(-4\frac{3}{5})$

A. 4.1
B. -4.1
C. 5.1
D. -5.1

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10. $\frac{5}{6} - (-\frac{3}{4})$

A. $\frac{19}{12}$
B. $\frac{18}{12}$
C. $\frac{19}{11}$
D. $\frac{19}{10}$

11. $-\frac{2}{3} - (-\frac{1}{2})$

A. $-\frac{1}{3}$
B. $-\frac{1}{6}$
C. $-\frac{2}{6}$
D. $\frac{1}{6}$

12. $-\frac{7}{10} - (-\frac{4}{15})$

A. $-\frac{13}{40}$
B. $-\frac{12}{30}$
C. $-\frac{13}{30}$
D. $\frac{13}{30}$

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Q19: Use the rules for multiplying integers to multiply rational numbers

page: 211 (1-6)

MCQ - الأسئلة الموضوعية

1. $-\frac{1}{2}\left(-\frac{4}{5}\right)$

A. $\frac{2}{2}$
B. $-\frac{2}{5}$
C. $\frac{2}{5}$
D. $\frac{2}{8}$

2. $-\frac{3}{8}\left(-\frac{8}{9}\right)$

A. 1
B. $-\frac{2}{5}$
C. $\frac{2}{5}$
D. $\frac{1}{3}$

3. $-\frac{1}{4}\left(-\frac{4}{5}\right)$

A. $\frac{1}{5}$
B. $-\frac{1}{5}$
C. $\frac{4}{5}$
D. $\frac{3}{5}$

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4. $1\frac{4}{9}\left(-2\frac{4}{7}\right)$

A. $-3\frac{4}{5}$
B. $-3\frac{5}{7}$
C. $-2\frac{4}{5}$
D. $-\frac{4}{5}$

5. $1\frac{1}{10}\left(-6\frac{7}{8}\right)$

A. $-7\frac{8}{16}$
B. $-8\frac{9}{16}$
C. $-7\frac{9}{16}$
D. $7\frac{9}{16}$

6. $-5\frac{1}{4}\left(-4\frac{2}{3}\right)$

A. $-24\frac{6}{12}$
B. 24
C. $\frac{10}{7}$
D. $24\frac{6}{12}$

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Q20: Use the rules for dividing integers to divide rational numbers

page: 220 (18-20)

MCQ - الأسئلة الموضوعية

18. Find the Error A student is finding $-\frac{6}{7} \div \left(-\frac{5}{6}\right)$. Find the student's mistake and correct it.

$$-\frac{6}{7} \div \left(-\frac{5}{6}\right) = -\frac{7}{6} \cdot \left(-\frac{5}{6}\right)$$
$$= \frac{35}{36}$$

A) The student multiplied by the reciprocal of the dividend instead of the divisor; the correct work is $-\frac{6}{7} \cdot \left(-\frac{6}{5}\right) = 1\frac{1}{35}$

B) The student forgot to change the negative signs to positive; the correct work is $\frac{7}{6} \cdot \frac{5}{6} = \frac{35}{36}$

C) The student added the denominators instead of multiplying; the correct work is $-\frac{6}{7} + \left(-\frac{5}{6}\right) = -\frac{71}{42}$

D) The student inverted both fractions; the correct work is $-\frac{7}{6} \cdot \left(-\frac{6}{5}\right) = \frac{7}{5}$

D	C	B	A

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19. **Make an Argument** Which is greater, $20 \cdot \frac{3}{4}$ or $20 \div \frac{3}{4}$? Explain.

A) $20 \cdot \frac{3}{4}$; multiplying a whole number by a fraction always increases its value.

B) $20 \div \frac{3}{4}$; multiplying 20 by a number less than 1 results in a number less than 20, while dividing 20 by a number less than 1 results in a number greater than 20.

C) Both expressions are equal because multiplication and division are inverse operations.

D) $20 \cdot \frac{3}{4}$; division by a fraction less than 1 always results in a smaller number.

D	C	B	A

20. **Persevere with Problems** Find the missing fraction for each problem.

a. $-\frac{1}{4} \div \left(\frac{x}{y}\right) = -\frac{1}{2}$

A) $\frac{1}{2}$

B) $-\frac{1}{2}$

C) 2

D) -2

D	C	B	A

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b. $\frac{a}{b} \div \left(-\frac{2}{3}\right) = 1$

A) $\frac{2}{3}$

B) $-\frac{3}{2}$

C) $-\frac{2}{3}$

D) 1

D	C	B	A

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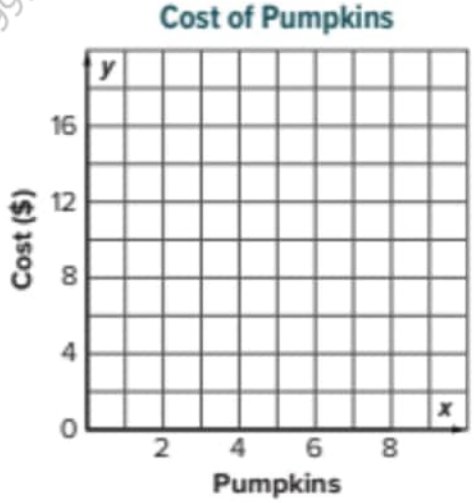
Q21: Determine if a relationship is proportional by analyzing its graph

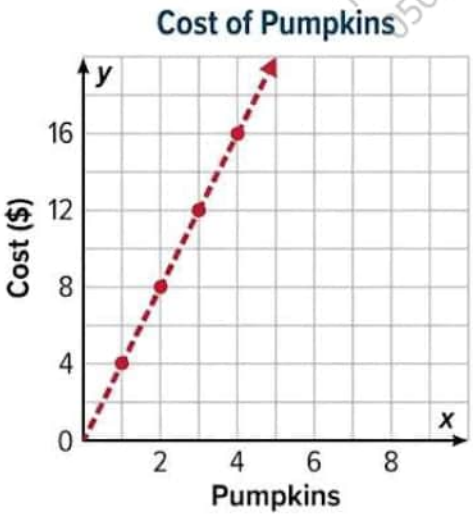
page: 39 (1-3)

الأسئلة المقالية - FRQ

1. The cost of pumpkins is shown in the table. Determine whether the cost of a pumpkin is proportional to the number bought by graphing the relationship on the coordinate plane. Explain. (Example 1)

Number of Pumpkins	0	1	2	3	4
Cost ($)	0	4	8	12	16





The cost is proportional to the number of pumpkins bought because the graph is a straight line through the origin.

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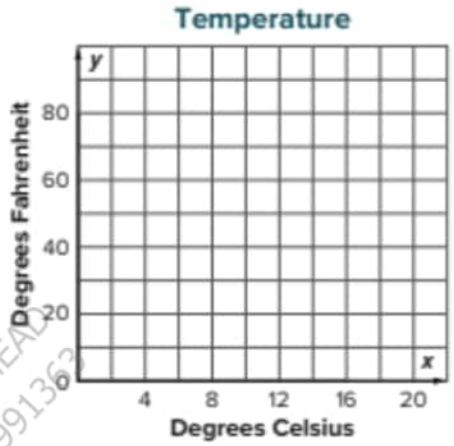
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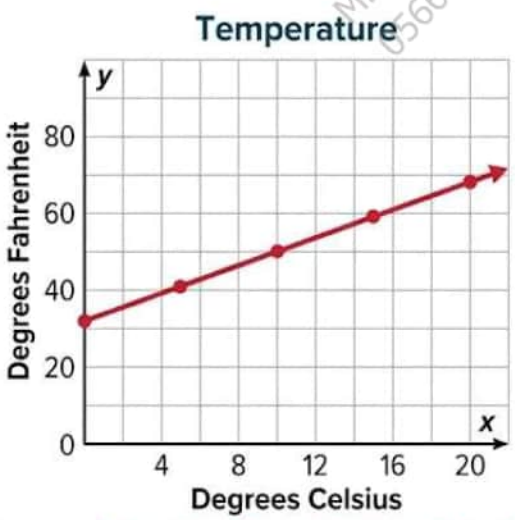
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2. The table shows temperatures in degrees Celsius and their equivalent temperatures in degrees Fahrenheit. Determine whether the temperature in degrees Fahrenheit is proportional to the temperature in degrees Celsius by graphing the relationship on the coordinate plane. Explain. (Example 2)

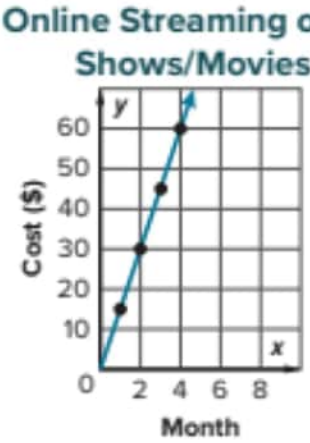
Celsius (degrees)	0	5	10	15	20
Fahrenheit (degrees)	32	41	50	59	68





Degrees Fahrenheit is not proportional to degrees Celsius because the graph does not pass through the origin.

3. The total cost of online streaming is proportional to the number of months. What is the constant of proportionality? (Example 3)



15

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احصل على الشرح كاملاً بـ 99 درهم فقط

Q22: Use proportional relationships to find the amount to pay Use proportional relationships to find the amount of discount or markdown for a tip and the amount of markup on items

page: 89, 97 (6-9), (1-5)

الأسئلة المقالية - FRQ

6. The wholesale cost of a bicycle is $98.75. The markup for the bicycle is 33.3%. Find the selling price of the bicycle. Round to the nearest cent. (Example 2)

131.63 $

7. The wholesale cost for a purse in a department store is $12.50. The store plans to mark up the purse by 140%. What will be the selling price of the purse? Round to the nearest cent. (Example 2)

30 $

8. Keri is making doll clothes for a holiday craft show. The wholesale cost of the materials for one outfit is $9.38. If she sells an outfit for $15, what is the percent of markup? Round to the nearest percent. (Example 3)

٪ 60

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9. A pet store sells a large dog kennel for $98.50. The wholesale cost of the kennel is $63.55. What is the percent of markup? Round to the nearest percent. (Example 3)

55 ٪

Find the sale price to the nearest cent. Use any strategy. (Example 1)

1. $140 coat; 10% discount

126 $

2. $80 boots; 25% discount

60 $

3. $325 tent; 15% discount

276.25 $

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4. A toy store is having a sale. A video game system has an original price of $99. It is on sale for 40% off the original price. Find the sale price of the game system. Round to the nearest cent. (Example 1)

59.40 $

5. A yearly coffee club subscription costs $65. Avery received an offer for 62% off the subscription cost. What is the sale price of the subscription? Round to the nearest cent. (Example 1)

24.70 $

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Q23: Use different methods, including algebra tiles, number lines, or absolute value, to add integers, Use different methods, including algebra tiles, number lines, or the additive inverse, to subtract integers

page: 137, 147 (1-6), (2-7)

الأسئلة المقالية - FRQ

Add. (Examples 1, 4, and 6)

1. $-3 + (-8)$

-11

2. $-11 + (-13)$

-24

3. $9 + (-35)$

-26

4. $-28 + 14$

-14

5. $-22 + (-10) + 15$

-17

6. $18 + (-12) + 5$

11

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Subtract. (Examples 1 and 2)

2. $-20 - 10$

-30

3. $13 - (-63)$

76

4. $28 - 14$

14

5. $-10 - 0$

-10

6. $-33 - 33$

-66

7. $-18 - (-12)$

-6

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احصل على الشرح كاملاً بـ 99 درهم فقط

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Q24: Convert fractions to decimal equivalents using division

page: 178, 183 learn, (1-6)

الأسئلة المقالية - FRQ

Learn Rational Numbers Written as Decimals

Any fraction can be expressed as a decimal by dividing the numerator by the denominator. The decimal form of a rational number either terminates in 0s or eventually repeats. **Repeating decimals** are decimals in which 1 or more digits repeat and can be represented using bar notation. In **bar notation**, a bar is drawn only over the digit(s) that repeat.

The following decimals are written in bar notation.

$-0.44444\ldots = -0.\overline{4}$	The digit 4 repeats.
$2.4343\ldots = 2.\overline{43}$	The digits 43 repeat.

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Complete the table by writing each decimal using bar notation.

Decimal	Bar Notation
0.11111.....	$0.\overline{1}$
0.61111.....	$0.6\overline{1}$
0.616161.....	$0.\overline{61}$
6.160000.....	$6.16\overline{0}$
6.1611611611.....	$6.\overline{161}$

Write each fraction as a decimal. Determine if the decimal is a terminating decimal. (Examples 1 and 2)

1. $\frac{5}{8}$

0.625; terminating

2. $-\frac{3}{4}$

−0.75; terminating

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3. $\frac{2}{9}$

$0.\overline{2}$; non-terminating

4. $-\frac{5}{6}$

$-0.8\overline{3}$; non-terminating

5. $-\frac{4}{5}$

-0.8; terminating

6. $\frac{23}{50}$

0.46; terminating

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احصل على الشرح كاملاً بـ 99 درهم فقط

Q25: Use the rules for dividing integers to divide rational numbers

page: 219 (1-6)

الأسئلة المقالية - FRQ

Divide. Write your answer in simplest fraction form. (Examples 1 and 2)

1. $-\frac{6}{7} \div \frac{3}{14}$

-4

2. $-\frac{3}{4} \div \left(-\frac{1}{2}\right)$

$\frac{3}{2}$

3. $\frac{2}{3} \div \left(-\frac{4}{9}\right)$

$-\frac{3}{2}$

4. $-\frac{4}{7} \div \frac{8}{9}$

$-\frac{9}{14}$

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5. $-\frac{3}{5} \div \left(-\frac{3}{4}\right)$

$\frac{4}{5}$

6. $-5\frac{3}{4} \div \left(2\frac{1}{16}\right)$

$-\frac{92}{33}$

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