تغطية اختبار نهاية الفصل





تم تحميل هذا الملف من موقع المناهج الإماراتية

موقع المناهج ⇦ المناهج الإماراتية ⇦ الصف السادس ⇦ رياضيات ⇦ الفصل الأول ⇦ ملفات متنوعة ⇦ الملف

تاريخ إضافة الملف على موقع المناهج: 2026-11-15 17:07:02

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 السادس

صفحة المناهج الإماراتية على فيسبوك					
المواد على تلغرام	التربية الاسلامية	اللغة العربية	اللغة الانجليزية	الرياضيات	

المزيد من الملفات بحسب الصف السادس والمادة رياضيات في الفصل الأول

1	أسئلة مراجعة نهاية الفصل السادس المتقدم
2	مراجعة نهاية الفصل في النسب والمعدلات
3	الفصل نهاية مراجعة كتيب G6 EoT1 Review Booklet
4	المتقدم السادس Math EOT 6 Advanced questions
5	هيكل 6 متقدم ريفيل

تحميل تطبيق المناهج للهواتف الذكية

تطبيق المناهج على App Store (آبل)	تطبيق المناهج على Play Google (أندرويد)

End of Term 1 Exam Coverage
Grade 6 General-Math

Student Name:.....

Date :.....section: 6/.....

Q1	Understand Ratios	Example 2 Page: 7	Q 1-4 Page : 11

Ex 2) A florist fills a small vase with 6 carnations, 2 sunflowers, and 4 tulips. The large vase has the same ratio of flowers and 36 flowers in total. How many are tulips?

A) 8 tulips B) 10 tulips C) 12 tulips D) 16 tulips

Small Vase	
Flower	Quantity
Carnations	6
Sunflowers	2
Tulips	4

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1) Suri has 6 dimes and 4 quarters. Martha has 5 dimes and 3 quarters. Suri thinks the ratio of dimes to quarters is the same because each has 2 more dimes than quarters. Is the ratio maintained?

A. Yes; the difference between the numbers is 2 in both purses.

B. No, because the ratio in Suri's purse is 3:2 and in Martha's purse is 5:3, and these are not equal.

C. Yes; both ratios simplify to 3:2.

D. No; both ratios simplify to 1:2.

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2) Levi answered 8 questions correctly out of 10 turns. He then answered the next 3 correctly and reasoned that adding 3 to both numbers keeps the ratio the same. Is he correct?

A. Yes, because adding 3 to both numbers keeps the ratio the same.
B. No, because 8:10 and 11:13 are not equivalent ratios.
C. Yes, because both ratios simplify to 4:5.
D. No, because the number of correct answers must stay the same.

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3) One batch of punch: Cranberry juice 4 cups, Lemon-lime soda 1 cup, Orange juice 2 cups, Pineapple juice 2 cups. The bowl holds 27 cups. How many cups of orange juice are needed?

A. 9 cups B. 6 cups C. 5 cups D. 8 cups

Item	Cups
Cranberry Juice	4
Lemon Line Soda	1
Orange Juice	2
Pineapple Juice	2

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4) A small fruit basket contains the fruits shown. A large basket has the same ratio of fruits as the small basket. If the large basket has 42 total pieces of fruit, how many are pears?

A. 18 pears B. 15 pears C. 9 pears D. 12 pears

Type of Fruit	Amount
Apple	6
Orange	5
Pear	3

Q2	Understand Ratios	Example 3 Page: 8	Q 5-7 Page : 11

Ex 3) A small box of muffins has 2 blueberry, 1 cinnamon, and 3 chocolate. A large box keeps the same ratio and has 9 chocolate muffins. How many blueberry muffins are in the large box?

A) 4 muffins B) 6 muffins C) 8 muffins D) 12 muffins

Small Box	
Muffin	Quantity
Blueberry	2
Cinnamon	1
Chocolate	3

5) Mrs. Santiago is buying doughnuts for her office. Each box contains 6 glazed, 4 cream filled, and 2 chocolate flavored doughnuts. If there were 20 total cream filled doughnuts, how many chocolate doughnuts did she buy?

A. 8 chocolate doughnuts

B. 10 chocolate doughnuts

C. 12 chocolate doughnuts

D. 14 chocolate doughnuts

6) A small batch of trail mix contains 2 cups of raisins, 2 cups of peanuts, 1 cup of sunflower seeds, and 1 cup of chocolate coated candies. A large batch has the same ratio of ingredients as a small batch. If the large batch has 8 cups of peanuts, how many cups of sunflower seeds are in a large batch?

A. 2 cups B. 4 cups C. 6 cups D. 8 cups

7) A football coach needs to divide 48 players into two groups. He wants the ratio of players in Group 1 to players in Group 2 to be 1:3. How many players will be in Group 2?

A) 12 players B) 16 players C) 24 players D) 36 players

Q3	Tables of Equivalent Ratios	Example 1 Page: 15	Q 1-2 Page : 21

Ex 1) To make yellow icing, Amida mixes 6 drops of yellow food coloring with 2 cups of white icing. How many drops of yellow food coloring should Amida mix with 8 cups of white icing to get the same shade of yellow?

Drops of Yellow	6	?
Cups of Icing	2	8

A) 12 drops B) 18 drops C) 24 drops D) 30 drops

1) Jayden's snow cone machine makes 3 snow cones from 0.5 pound of ice. How many snow cones can be made with 5 pounds of ice?

A) 15 snow cones B) 20 snow cones C) 30 snow cones D) 35 snow cones

2) Nyoko is having a pizza party. Two large pizzas serve 9 people. How many large pizzas should she order to serve 36 guests at the party?

A) 4 pizzas B) 6 pizzas C) 8 pizzas D) 10 pizzas

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Q4	Tables of Equivalent Ratios	Example 2 , 3 Page: 16 & 17	Q 3-8 Page : 21

Ex 2: Akeno mixes 3 containers of yellow paint with 4 containers of red paint. Aiko has only 2 containers of red paint. How many containers of yellow paint should she use to make the same shade?



A. 1 container
B. 1.5 containers
C. 2 containers
D. 3 containers

Ex 3: Natasha made raspberry punch for a party by mixing 9 fluid ounces of fruit punch, 3 liters of soda, and 6 scoops of raspberry ice cream. Halfway through the party, the punch bowl was empty. If Natasha only has 6 fluid ounces of fruit punch left, how many scoops of ice cream does she need to make another batch of punch?

Fruit Punch (fl oz)	6	9
Ice Cream (scoops)	?	6

A) 2 scoops
B) 3 scoops
C) 4 scoops
D) 6 scoops

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3) The world record for the most number of speed skips in 60 seconds is 332 skips. If the record holder skipped at a constant ratio of seconds to skips, how many skips did she make in 15 seconds?

A) 73 skips B) 83 skips C) 80 skips D) 90 skips

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4. A recipe for homemade clay calls for 6 cups of water for every 12 cups of flour. How many cups of water are needed when 4 cups of flour are used?

A) 1 cup B) 2 cups C) 3 cups D) 4 cups

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5. Adrian decorated 16 cupcakes in 28 minutes. If he continues at this pace, how many minutes will it take him to decorate 56 cupcakes?

A) 84 minutes B) 92 minutes C) 98 minutes D) 112 minutes

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6. A comic book store is having a sale. You can buy 20 comic books for $35. What is the cost of 8 comic books during the sale?

A) $12 B) $14 C) $16 D) $18

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7. A certain store is selling packages of 10 pencils and 4 pens for back to school. The store manager wants to make a larger package in the same ratio. If the large package has 10 pens, how many pencils are in the large package?

A) 15 pencils B) 20 pencils C) 25 pencils D) 30 pencils

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8. Ben made trail mix for his camping trip that contained 8 ounces of peanuts, 6 ounces of raisins, and 10 ounces of chocolate candies. He wants to make a larger batch for his next camping trip with 28 ounces of peanuts. How many ounces of raisins will he need?

A) 18 ounces B) 20 ounces C) 21 ounces D) 24 ounces

Q5	Compare Ratio Relationships	Learn & Example 2 Page: 31	Q 1-3 Page : 35

Learn : Smoothie recipes (blueberries to strawberries): A is 8 to 2, B is 5 to 1, C is 10 to 3. Which recipe has the greatest ratio of blueberries to strawberries?
A. Recipe A
B. Recipe B
C. Recipe C
D. All are equal

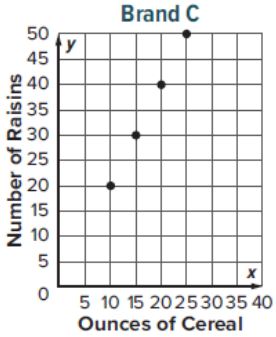
Ex 2: Bird seed (sunflower seeds to peanuts): Recipe A is 2 to 3, B is 3 to 4, C is 5 to 6. Which recipe has the greatest ratio of sunflower seeds to peanuts?
A. Recipe C
B. Recipe A
C. Recipe B
D. All are equal

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1. Cereal Brand A advertises 60 raisins in a 24-ounce box of cereal. The information for two other cereal brands is shown below. Which brand has the greatest ratio of raisins to ounces of cereal?

Brand B

Ounces of Cereal	6	12	20	24
Raisins	18	36	60	72



A. Brand A
B. Brand B
C. Brand C
D. All three brands have the same ratio.

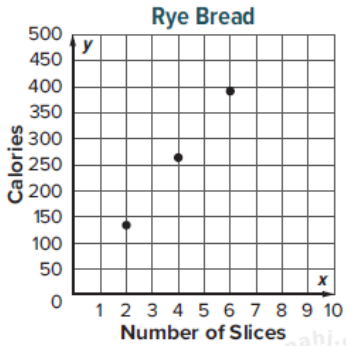
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2. Three people spend different amounts of time on resistance training and cardio exercises. Alex: 24 minutes resistance, 30 minutes cardio. Carisa: 15 minutes resistance, 20 minutes cardio. Manuel: 14 minutes resistance, 15 minutes cardio. Who has the greatest ratio of resistance training to cardio?
A. Alex
B. Carisa
C. Manuel
D. All have the same ratio.

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3. Mrs. Quinto compares the calories in three types of bread. Wheat bread has 150 calories for every 2 slices. Use the table and graph to answer the question.
Which bread has the greatest ratio of calories to slices?
A. Wheat Bread
B. White Bread
C. Rye Bread
D. All have the same ratio.

White Bread	
Slices	Calories
2	160
4	320
6	480



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Q6	*Convert Customary Measurement Units*	Learn & Example 1 Page: 48& 49	Q 1-10 Page : 55

Learn: How many fluid ounces are in 6 pints?

A. 12 fluid ounces B. 48 fluid ounces C. 96 fluid ounces D. 192 fluid ounces

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Ex1: Marco needs to mix $\frac{1}{2}$ gallon of fertilizer with soil. How many cups of fertilizer should he use?

A. 4 cups B. 8 cups C. 2 cups D. 16 cups

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1. Mrs. Menary made 4 quarts of lemonade for a school party. How many fluid ounces of lemonade did she make?

A. 64 fluid ounces
B. 96 fluid ounces
C. 128 fluid ounces
D. 144 fluid ounces

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2. A class walked 2.5 miles for a walk-a-thon. How many yards did the class walk?

A. 2,500 yards
B. 3,520 yards
C. 4,400 yards
D. 5,280 yards

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3. The Martinez family has $\frac{3}{4}$ gallon of orange juice in the refrigerator. How many cups of orange juice are in the refrigerator?

A. 12 cups
B. 48 cups
C. 52 cups
D. 60 cups

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4. A grand piano can weigh $\frac{1}{2}$ ton. How many ounces can a grand piano weigh?

A. 8,000 ounces
B. 12,000 ounces
C. 16,000 ounces
D. 32,000 ounces

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5. A female hippopotamus can weigh 48,000 ounces. How many tons can a female hippopotamus weigh?

A. 1 ton
B. 1.5 tons
C. 2 tons
D. 3 tons

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6. At soccer practice, Tracey's best kick traveled a distance of 1,200 inches. For how many yards did she kick the ball?

A. 30 yards
B. 33⅓ yards
C. 36 yards
D. 40 yards

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7. An elephant can drink up to 6,400 fluid ounces of water a day. How many gallons of water can an elephant drink per day?

A. 40 gallons **B.** 45 gallons **C.** 50 gallons **D.** 55 gallons

8. A recipe for ice cream calls for 56 fluid ounces of milk. How many pints of milk are there in the recipe?

A. 3 pints
B. 3½ pints
C. 4 ints
D. 4½ pints

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9. One quart of strawberries weighs about 2 pounds. About how many quarts of strawberries would weigh $\frac{1}{4}$ ton?

A. 125 quarts
B. 250 quarts
C. 500 quarts
D. 1,000 quarts

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10. A mini fruit juice box contains 4 fluid ounces of juice. You need 2 quarts of fruit juice. How many mini fruit juice boxes will you need?

A. 8 boxes
B. 12 boxes
C. 16 boxes
D. 32 boxes

Q7	*Convert Customary Measurement Units*	Learn & Example 2 Page:51& 52	Q 1-10 Page : 55

Learn: How many yards are in 24 inches?

A. 2 yards
B. $\frac{1}{3}$ yard
C. 8 yards
D. $\frac{2}{3}$ yard

Ex 2: A male hippopotamus can weigh as much as 9,920 pounds. How many tons is that?

A. 19.84 tons
B. 9.92 tons
C. 4.96 tons
D. 49.6 tons

Q8	Understand Rates and Unit Rates	Learn Page:57& 58	

Learn: Luciana ran 4 laps in 6 minutes at a constant speed. How many minutes did she take to run 1 lap?

A. 1 minute B. 1.5 minutes C. 2 minutes D. 4 minutes

Learn Luciana ran 4 laps in 6 minutes at a constant speed. How many laps can she run in 1 minute?

A. $\frac{1}{2}$ lap
B. $\frac{2}{3}$ lap
C. $\frac{3}{2}$ laps
D. 4 lap

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Q 9	Understand Rates and Unit Rates	Example 1 , 2 Page:59& 60	Q 1-8 Page : 63

Ex 1 : A hummingbird flapped its wings 1,590 times in 30 seconds. How many times did it flap its wings per second?

A. 30 times
B. 45 times
C. 53 times
D. 60 time

Ex 2: For Carolina's birthday, her mother can buy a 5-pack of student tickets for $130 or individual student tickets for $28 each. Which ticket option has the lower unit price?

A. 5-pack tickets at $26 per ticket
B. Individual tickets at $28 per ticket
C. Both options have the same unit price
D. 5-pack tickets at $28 per ticket

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1. A hippopotamus can run 6 kilometers in 15 minutes. At this rate, how far can the hippopotamus run in 1 minute?

A. 0.3 km
B. 0.4 km
C. 0.5 km
D. 0.6 km

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2. Imena earned $261 last week. If she worked 18 hours and earned the same amount each hour, how much was she paid per hour?

A. $12
B. $14.50
C. $15
D. $17

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3. A cat's heart beats approximately 45 times in 15 seconds. At this rate how many times does the cat's heart beat per second?

A. 2 beats per second
B. 3 beats per second
C. 4 beats per second
D. 5 beats per second

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4. Mr. Farley used 4 pounds of hamburger to make 10 hamburger patties of the same size. How many pounds of hamburger did he use per patty?

A. 0.2 pounds
B. 0.4 pounds
C. 0.6 pounds
D. 0.8 pounds

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5. At the school festival, Heather can buy 25 game tickets for $10, or she can pay $0.50 per game ticket. Which option has the lesser price per ticket?

A. 25 tickets for $10
B. $0.50 per ticket
C. Both cost the same
D. Cannot determine

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6. At a toy store, Colton can buy a package of 6 mini footballs for $7.50, or a package of 8 mini footballs for $9.60. Which option has the lesser price per mini football?

A. 6 mini footballs for $7.50
B. 8 mini footballs for $9.60
C. Both cost the same
D. Cannot determine

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7. The table shows the options Zoe's mother has for buying tickets to an adventure day camp for Zoe and 5 of her friends. Which option has the lesser cost per student ticket?

Adventure Camp Tickets	
Option	Cost ($)
6-pack of Student Tickets	126.00
Individual Student Ticket	21.50

A. 6-pack of Student Tickets

B. Individual Student Ticket

C. Both cost the same

D. Cannot determine

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8. Which of the following offers the least price per ounce of shampoo?

A $6 for 8 ounces of shampoo

B $4 for 5 ounces of shampoo

C $8 for 12 ounces of shampoo

D $12 for 16 ounces of shampoo

Q 10	Solve Rate Problems		Q 1-6 Page : 71

1. Mr. Anderson is ordering pizzas for a class pizza party. Pizza Place has a special where he can buy 3 large pizzas for $18.75. At Mario's Pizzeria, he can buy 4 large pizzas for $22. If he needs to buy 12 pizzas, how much will he save if he buys the pizzas from Mario's Pizzeria instead of Pizza Place?

A. $9
B. $3.75
C. $4.50
D. $8

---

2. Skylar and Rodrigo each recorded how far they traveled while skateboarding. Skylar traveled 65 feet in 5 seconds and Rodrigo traveled 108 feet in 8 seconds. How much farther did Rodrigo travel per second than Skylar?
A. 1 feet
B. 2 feet
C. 0.5 feet
D. 4 feet

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3. Melissa is buying party favors to make gift bags. Supplies LTD sells a 5-pack of favors for $11.25 and Parties and More sells a 3-pack of favors for $8.25. At these rates, how much more will she spend if she buys 15 favors from Supplies LTD than Parties and More?

A. $7.50
B. $2.25
C. $8
D. $4.50

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4. Tara can type 180 words in 4 minutes. At this rate, how many words can she type in 10 minutes?

A. 350 words
B. 400 words
C. 420 words
D. 450 words

5. A bakery makes 260 donuts in 4 hours. At this rate, how many donuts can they make in 6 hours?

A. 350 donuts
B. 380 donuts
C. 390 donuts
D. 400 donuts

6. While jumping rope, Juan jumped 24 times in 30 seconds. At this rate, how many times will he jump in 50 seconds?

A. 35 times
B. 38 times
C. 40 times
D. 42 times

Q 11	Understand Percents	Learn & Example 3,4 Page:81& 82	

Learn: A bar diagram is divided into 10 equal sections. If 7 sections are shaded, what percent of the bar is shaded?

A. 30%
B. 50%
C. 70%
D. 90%



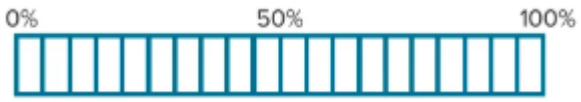
Ex 3: What percent is represented by the bar diagram?

A. 20%
B. 40%
C. 60%
D. 80%



Ex 4:A bar diagram is divided into 20 equal sections. How many sections should be shaded to represent 65%?

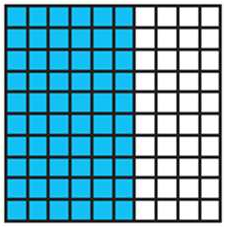
A. 10 sections
B. 12 sections
C. 13 sections
D. 15 sections



Q 12	Understand Percents	1-8	Page: 83

1) What percent is represented by the 10 × 10 grid ?

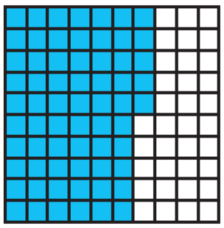
A. 46%
B. 65%
C. 60%
D. 56%



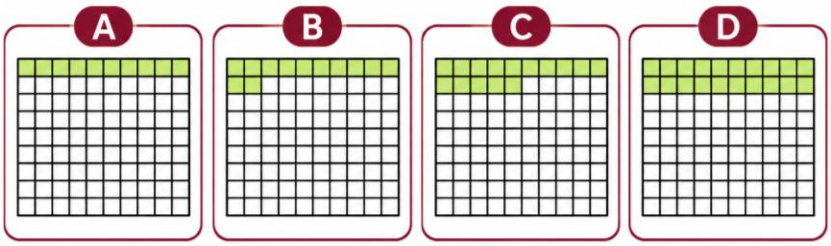
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2) What percent is represented by the 10 × 10 grid ?

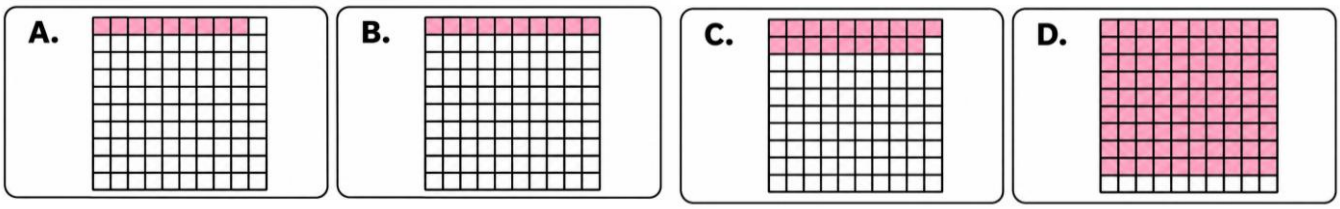
A. 46%
B. 65%
C. 60%
D. 56%



3) In a school survey, 12% of students said they like camping. How many squares should be shaded on the 10 × 10 grid to represent 12%?

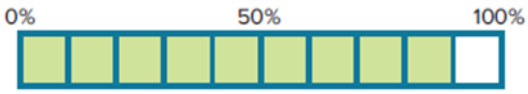


4. Of the students in the lunch line, 9% said they were buying strawberry milk. Which 10 × 10 grid models 9%?



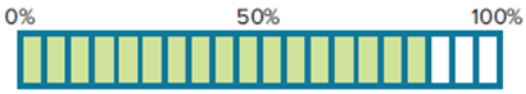
5) The percent represented by this bar diagram .

A. 46% B. 90% C. 60% D. 56%

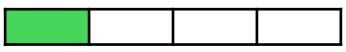


6) The percent represented by this bar diagram .

A. 46% B. 90% C. 60% D. 85%



7) Shade the bar diagram to model 25%.

A. 

B. 

C. 

D. 

8. How can you use a bar diagram to model 45%?

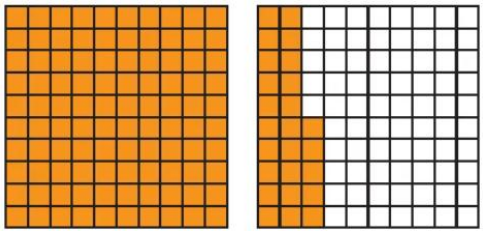
A. Shade 4 out of 10 equal parts.
B. Shade 45 out of 100 equal parts.
C. Shade 5 out of 10 equal parts.
D. Shade 45 out of 10 equal parts.

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Q 13	Percents Greater Than 100% and Less Than 1%	Learn & Example 1 Page:85 & 86

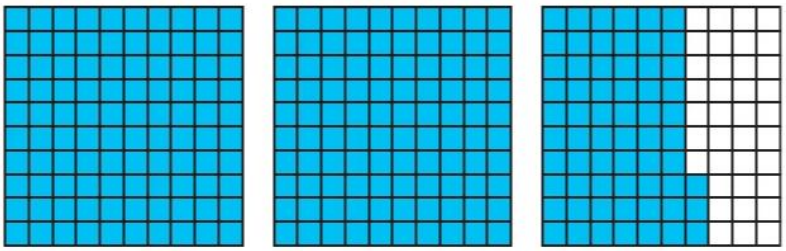
Learn: Look at the model. What percent does the shaded area represent?

A. 25% B. 100% C. 125% D. 150%



Ex 1: What percent is represented by the shaded squares in the 10 × 10 grids?

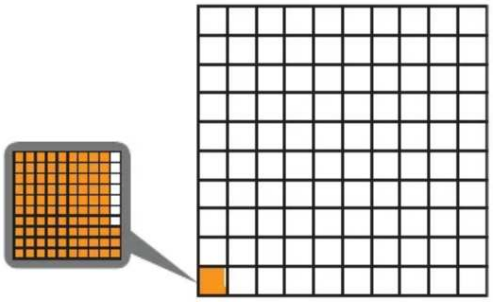
A. 200%
B. 260%
B. 230%
D. 263%



Q 14	Percents Greater Than 100% and Less Than 1%	Learn Page: 88 & 89	Q 1-6 Page : 91

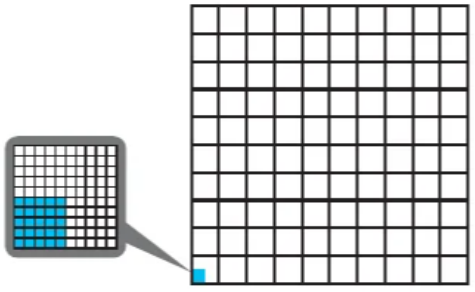
Learn: Look at the model. What percent does the shaded area represent?

A. 0.093%
B. 0.93%
C. 9.3%
D. 93%

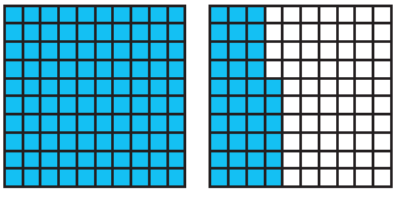


Ex 3: What percent is represented by the shaded squares in the 10 × 10 grids?

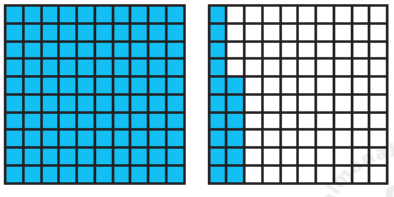
A. 0.025%
B. 0.25%
C. 2.5%
D. 25%



1) Identify the percent represented by the 10 × 10 grids.
A. 136%
B. 165%
C. 36%
D. 100%

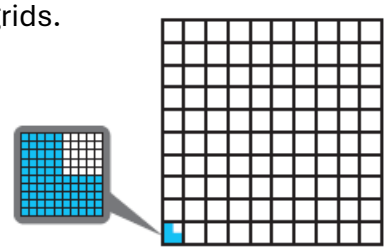


2) Identify the percent represented by the 10 × 10 grids.
A. 136%
B. 16%
C. 36%
D. 116%



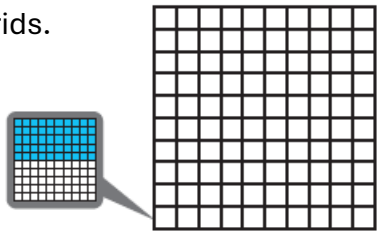
3) Identify the percent represented by the 10 × 10 grids.

A. 75%
B. 0.75%
C. 0.25%
D. 125%



4) Identify the percent represented by the 10 × 10 grids.

A. 150%
B. 50%
C. 0.5%
D. 0.20%



5. A large milkshake is 1.4 times the size of a medium milkshake. What percent of the medium milkshake's size is the large milkshake?

A. 14%
B. 40%
C. 104%
D. 140%

6. The Freedom Tower is 1,776 feet tall. A replica is 4.44 feet tall. What percent of the actual tower's height is the replica?

A. 0.025%
B. 0.25%
C. 2.5%
D. 25%

Q 15	Relate Fractions, Decimals, and Percents	1-13 Page: 101

1) Write percent as a fraction in simplest form: **45%**

A. $\frac{1}{45}$ **B.** $\frac{45}{10}$ **C.** $\frac{9}{20}$ **D.** $\frac{45}{100}$

2) Write percent as a fraction in simplest form: **72%**

A. $\frac{72}{100}$ **B.** $\frac{18}{25}$ **C.** $\frac{72}{10}$ **D.** $\frac{9}{25}$

3) Write percent as a fraction in simplest form: **80%**

A. $\frac{80}{100}$ **B.** $\frac{8}{10}$ **C.** $\frac{4}{5}$ **D.** $\frac{9}{25}$

4) Write Percent **45%** as a decimal.

A. 4.5
B. 0.45
C. 0.045
D. 45.0

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5) Write Percent **72%** as a decimal.

A. 0.072
B. 7.2
C. 0.72
D. 72.0

6) Write Percent **80 %** as a decimal.

A. 0.8

B. 8.0

C. 0.08

D. 80.0

7) What is $\frac{3}{20}$ as a percentage?

A) 15% B) 30% C) 1.5% D) 6.67%

8) What is $1\frac{3}{4}$ as a percentage?

A) 75% B) 134% C) 175% D) 1.75%

9) What is $\frac{5}{8}$ as a percentage?

A) 58% B) 62.5% C) 5.8% D) 85%

10) Write the fraction $\frac{3}{20}$ as a decimal.

A. 0.15 **B.** 0.3 **C.** 0.25 **D.** 0.2

11) Write the mixed number $1\frac{3}{4}$ as a decimal.

A. 1.25 **B.** 1.5 **C.** 1.75 **D.** 1.3

12) Write the fraction $\frac{5}{8}$ as a decimal.

A. 0.5 **B.** 0.625 **C.** 0.75 **D.** 0.85

13. About 0.41 of Hawaii's total area is water. Which fraction and percent are equivalent to 0.41?

A. $\frac{4}{10}$ and 4.1% B. $\frac{41}{100}$ and 41% C. $\frac{41}{10}$ and 410% D. $\frac{41}{1000}$ and 0.41%

14. Zane's free throw average increased by 30% during the basketball season. Which fraction and decimal are equivalent to 30%?

A. $\frac{3}{10}$ and 0.3 B. $\frac{3}{100}$ and 0.03 C. $\frac{30}{10}$ and 3.0 D. $\frac{3}{10}$ and 0.03

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15. There are 25 students in Muriel's class. Based on the table, which percent, fraction, and decimal represent the students with brown eyes?

Eye Color	Number of Students
Blue	6
Brown	10
Green	7
Hazel	2

A. 25%, $\frac{1}{4}$, 0.25 B. 40%, $\frac{2}{5}$, 0.4 C. 10%, $\frac{1}{10}$, 0.1 D. 50%, $\frac{1}{2}$, 0.5

16. Which option shows two values equivalent to 85%?

A. 0.85 and $\frac{17}{20}$ B. 0.8 and $\frac{85}{100}$ C. 0.85 and 85 D. 0.8 and $\frac{17}{20}$

Q 16	Estimate the Percent of a Number	1-12	Page:119

1. Estimate 51% of 62.

A. 15 B. 20 C. 30 D. 60

2. Estimate 26% of 78.

A. 10 B. 20 C. 30 D. 40

3. Estimate 39% of 198.

A. 40 B. 60 C. 80 D. 100

4. Estimate 78% of 148.

A. 90 B. 100 C. 120 D. 140

5. Estimate 19% of 103.

A. 10 B. 20 C. 30 D. 40

6. Estimate 98% of 59.

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

7. Emilia and her three sisters spent $38.75 on dinner. They want to leave a 23% tip. About how much should they leave?

A. $5 B. $8 C. $10 D. $15

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8. Karl earned $188 last month doing chores. If 68% of his earnings came from yard work, about how much did he earn from yard work?

A. $90 B. $110 C. $130 D. $140

9. A concession stand served 288 customers. About 77% bought a hot dog. About how many customers bought a hot dog?

A. 225 B. 200 C. 240 D. 260

10. The Chicago Cubs won 64% of the 161 games they played. About how many games did they win?

A. 60 games B. 80 games C. 104 games D. 120 games

11. The table shows how 515 students at West Middle School get to school. About how many students walk to school?

Method	Percent of Students
Bus	53%
Car	21%
Walk	26%

A. 100 students
B. 125 students
C. 150 students
D. 200 students

12. Carolyn's class sold 207 magazine subscriptions. About 28% were for fashion magazines. About how many fashion magazine subscriptions were sold?

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

Q 17	Divide Multi-Digit Whole Numbers	1-10	Page:141

1. Find 52,080 ÷ 15

A. 3,472
B. 3,4720
C. 2,072
D. 5,472

2. Find 38,480 ÷ 26

A. 480
B. 1,480
C. 10,480
D. 1,280

3. Find 648 ÷ 18

A. 36
B. 360
C. 63
D. 30

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4. Find 3,409 ÷ 14

A. 43.5
B. 245
C. 243.5
D. 230.5

5. Find 8,890 ÷ 40

A. 22.25
B. 222.25
C. 322.25
D. 220.25

6. Find 3,120 ÷ 64

A. 40.75
B. 48.75
C. 28.70
D. 49.55

7. Find 6,750 ÷ 240

A. 28.125
B. 8.125
C. 20.125
D. 20.12

8. Find 4,415 ÷ 800

A. 4.5187
B. 5.515
C. 5.51875
D. 6.51875

9. Find 5,777 ÷ 160

A. 10625
B. 6.10625
C. 36.10625
D. 36.1725

10. Mr. Santiago flies from Los Angeles to Toronto, a distance of 2,171 miles. If the plane travels at 520 miles per hour, how long is the flight?

New York to Paris	3,636 miles
Los Angeles to Toronto	2,171 miles

A. 3.175 hours
B. 4.175 hours
C. 4.5 hours
D. 5.175 hours

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Q 18	Compute With Multi-Digit Decimals	1-10	Page:153

1. Find the sum: 34.672 + 15.31 = ?

A. 49.882
B. 49.982
C. 50.982
D. 48.982

2. Find the sum: 152.875 + 35.4 = ?

A. 187.275
B. 188.175
C. 188.275
D. 188.875

3. Find the difference: 139.65 − 59.623 = ?
A. 80.027
B. 80.073
C. 79.027
D. 80.270

4. Find the difference: 352.37 − 231.975 = ?
A. 120.305
B. 121.395
C. 120.395
D. 120.495

5. Find the product: 0.025 × 1.24 = ?
A. 0.31
B. 0.0031
C. 0.031
D. 0.301

6. Find the product: 17.15 × 1.062 = ?
A. 18.1233
B. 18.2133
C. 17.2133
D. 182.133

7. Find the quotient: 32.674 ÷ 0.016 = ?
A. 204.2125
B. 2,042.125
C. 20.42125
D. 20,421.25

8. Find the quotient: 3.825 ÷ 0.25 = ?
A. 1.53
B. 15.3
C. 0.153
D. 153

9. Roberto hiked 21.48 miles on weekend one and 30 miles on weekend two. How many more miles did he hike on weekend two?

A. 8.42 miles
B. 8.52 miles
C. 9.52 miles
D. 8.62 miles

10. What is the value of 2,965.7 + 5.8?
A. 2,960.5
B. 2,971.5
C. 2,970.5
D. 3,023.7

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Q 19	Divide Whole Numbers by Fractions	1-10	Page:165

1. Find the reciprocal of $\frac{1}{2}$.

A. $\frac{1}{2}$ B. 2 C. $\frac{1}{4}$ D. 4

2. Find the reciprocal of $\frac{1}{5}$.

A. $\frac{1}{5}$ B. $\frac{1}{10}$ C. 5 D. 10

3. Find the reciprocal of 8.

A. 8 B. $\frac{1}{8}$ C. $\frac{1}{4}$ D. 16

4. What number multiplied by . $\frac{3}{5}$ has a product of 1?

A. $\frac{3}{5}$ B. $\frac{5}{3}$ C. $\frac{3}{10}$ D. 5

5. What number multiplied by $\frac{7}{10}$ has a product of 1?

A. $\frac{7}{10}$ B. $\frac{10}{7}$ C. $\frac{7}{20}$ D. 10

6) Find $3 \div \frac{1}{4}$ = Write in simplest form.

A. $\frac{3}{4}$ **B.** $7\frac{1}{2}$ **C.** 12 **D.** $\frac{1}{12}$

7)Find $4 \div \frac{2}{5}$ = Write in simplest form.

A. $\frac{3}{4}$ **B.** $5\frac{1}{2}$ **C.** 10 **D.** $\frac{1}{15}$

8) Find $6 \div \frac{2}{3}$ = Write in simplest form.

A. $\frac{3}{4}$ **B.** 9 **C.** 12 **D.** $\frac{1}{12}$

9) Marie is making scarves. She has 7 yards of fabric and each scarf needs $\frac{5}{8}$ yard of fabric. Find $7 \div \frac{5}{8}$. Then interpret the quotient.

A. $\frac{3}{4}$
B. $11\frac{1}{5}$
C. 12
D. $\frac{1}{12}$

10) Roberto is at a tennis day camp. The coach has set aside 2 hours to play mini matches that last $\frac{3}{5}$ hour. Find $2 \div \frac{3}{5}$. Then interpret the quotient.

A. $\frac{3}{4}$
B. $3\frac{1}{3}$
C. 3
D. $\frac{1}{12}$

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Q 20	Divide Fractions by Fractions	1-7	Page:175

1) Divide $\frac{5}{6} \div \frac{5}{12} =$. Write in simplest form.

A. $\frac{3}{4}$ **B.** 2 **C.** 4 **D.** $\frac{1}{12}$

2) Divide $\frac{1}{3} \div \frac{1}{9} =$. Write in simplest form.

A. $\frac{3}{4}$ **B.** 2 **C.** 3 **D.** $\frac{1}{12}$

3) Divide $\frac{3}{7} \div \frac{1}{14} ==$. Write in simplest form.

A. $\frac{3}{4}$ **B.** 6 **C.** 4 **D.** $\frac{1}{12}$

4) Romeo had $\frac{3}{4}$ pound of fudge left. He divided the remaining fudge into $\frac{5}{16}$ -pound bags. Write and solve an equation that models the situation.

A. $2\frac{2}{5}$
B. 7
C. 4
D. $\frac{1}{12}$

5) Chelsea has $\frac{7}{8}$ pound of butter to make icing. Each batch of icing needs $\frac{1}{4}$ pound of butter. Write and solve an equation that models the situation.

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

6) Divide $\frac{5}{6} \div \frac{1}{6} =$. Write in simplest form.

A. $\frac{3}{4}$
B. 5
C. 4
D. $3\frac{1}{2}$

7) What is the value of the expression $\frac{2}{5} \div \frac{1}{6} = ?$

A. $2\frac{2}{5}$
B. 5
C. 4
D. $3\frac{1}{2}$

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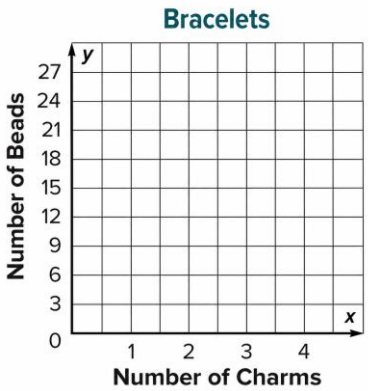
Q 21	Graphs of Equivalent Ratios	Example 1 – Page: 24	Q 1-3 Page : 27

Tamara is making charm bracelets for several friends. She uses 6 beads for every charm. **Generate the set of ordered pairs** for the ratio relationship between the number of beads **y** and the number of charms **x** for a total of 1, 2, 3, and 4 charms. Then graph the relationship.

Part A: Create a table of ordered pairs.

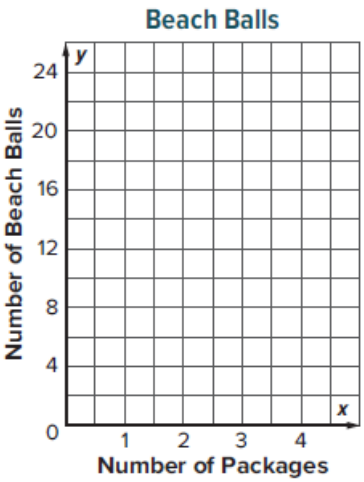
Charms, *x*	Beads, *y*
1	
2	
3	
4	

Part B: Graph the ordered pairs on the coordinate plane.

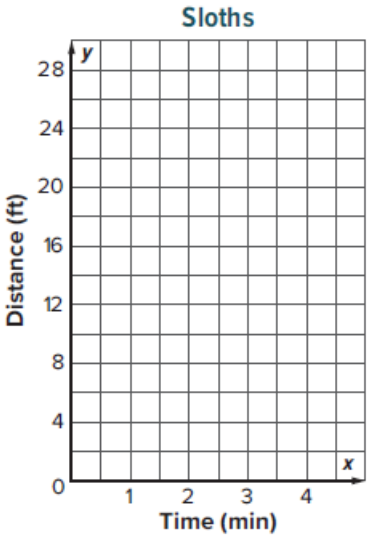


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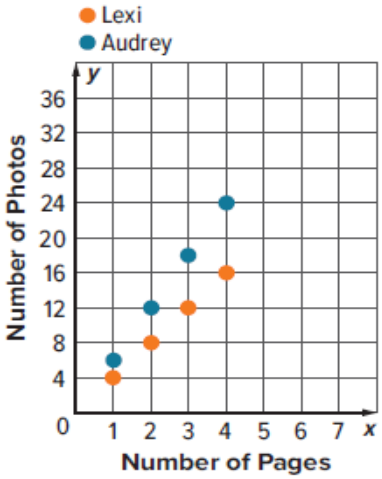
1. Lulah is buying beach balls for her beach themed party. Each package contains 6 beach balls. Generate the set of ordered pairs for the ratio relationship between the number of beach balls *y* and the number of packages *x* for a total of 1, 2, 3, and 4 packages. Then graph the relationship on the coordinate plane and describe the pattern in the graph.



2. A sloth travels about 7 feet every minute. Generate the set of ordered pairs for the ratio relationship between the total distance traveled *y* and the number of minutes *x* for a total of 1, 2, 3, and 4 minutes. Then graph the relationship on the coordinate plane and describe the pattern in the graph.



3.Two friends are making scrapbooks. The number of photos Lexi and Audrey place on each page of their scrapbooks is shown in the graph. Describe the ratio relationship for each person.



Q 22	Solve Ratio Problems	Q 1-8 Page : 45

1.A survey showed that 4 out of 5 students own a bicycle. Based on this result, how many of the 800 students in a school own a bicycle?	2.A survey of Mr. Thorne's class shows that 5 out of 8 students will buy lunch today. Based on this result, how many of the 720 students in the school will buy today?
3. The ratio of the number of baskets made by Tony to the number of baskets made by Colin is 2 to 3. Tony made 10 baskets. How many baskets did Colin make?	4. In the school choir, there is 1 boy for every 4 girls. There are a total of 11 boys. How many girls are in the choir?
5. Liberty Middle School has 600 students. In Anna's class, 3 out of 8 students walk to school. How many students at the school can be expected to walk to school?	6. Pine Hill Middle School has 300 students. In Zoey's class, 2 out of 5 students belong to a club. How many students at the school would you expect belong to a club?

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7. In a survey, the ratio of students who prefer popcorn to potato chips is 3 to 4. If the number of students surveyed who prefer popcorn is 360, how many preferred potato chips?	8. Open Response In a neighborhood, the ratio of houses with swing sets to houses without swing sets is 3 to 5. If the number of houses with swing sets is 270, how many houses do not have swing sets?

Q 23	Find the Percent of a Number	Q 1-9 Page : 111

1. The graph shows the career interests of the students at Linda's school. Suppose there are 400 students at the school. How many of them want to be an athlete?



2. The graph shows the favorite activities of campers at a summer camp. Suppose there are 300 campers at the camp. How many campers favor fishing?



Use any method to find the percent of each number.

3. 15% of 240 =	**4.** 65% of 180 =	**5.** 250% of 82 =
6. 150% of 44 =	**7.** 0.15% of 350 =	8. 0.4% of 168 =

9. Kenzie is putting the family vacation videos onto a flash drive. The flash drive can hold 200 minutes of video. Kenzie has used 45% of the memory space already. How many minutes of the flash drive has she already used?

---

1. Yolanda's club requires that 80% of the members be present for any vote. If at least 20 members must be present to have a vote, how many members does the club currently have?

2. Action movies make up 25% of Sara's DVD collection. If she has 16 action DVDs, how many DVDs does Sara have in her collection?

3. Marcus saved $10 because he bought a baseball glove that was on sale for 40% off. What was the original price of the glove?

4. Of the students in the marching band, 55% plan to go to the school dance. If there are 110 students in the marching band that are going to the dance, how many students are in the marching band?

5. Melcher used 24% of the memory card on his digital camera while taking pictures at a family reunion. If Melcher took 96 pictures at the family reunion, how many pictures can the memory card hold?

6. Mallorie has $12 in her wallet. If this is 20% of her monthly allowance, what is her monthly allowance?

7. The table shows the number of minutes Tim has for lunch and study hall. He calculates that these two periods account for 18% of the minutes he spends at school. How many minutes does he spend at school?

Period	Number of Minutes
Lunch	45
Study Hall	45

8. The number of sixth grade students accounts for 35% of the total number of students enrolled in middle school. There are 245 sixth grade students. How many students are enrolled in the middle school?

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Q 25	Divide with Whole and Mixed Numbers	Q 110 Page : 185

1. The drama teacher is making bandanas for costumes. She is cutting $\frac{1}{2}$ yard of fabric into 6 bandanas of the same size. Write and solve an equation to find how much fabric there will be for each bandana.

2. A landscape designer has $\frac{4}{5}$ ton of mulch to divide equally among 8 customers. Write and solve an equation to find how much mulch each customer will receive.

Divide. Write in simplest form.

3. $2\frac{4}{5} \div 4 =$	**4.** $6\frac{2}{3} \div 8 =$	5. $4\frac{2}{3} \div 6 =$
6. $3\frac{3}{5} \div 1\frac{1}{2} =$	**7.** $3\frac{3}{4} \div 1\frac{2}{3} =$	8. $4\frac{1}{2} \div 2\frac{7}{10} =$

9. Jeanne has $3\frac{7}{8}$ yards of fabric. The table shows the amount of fabric she needs for different items. How many pairs of shorts can she make?

Clothing Item	Fabric Needed (yd)
Shirt	$1\frac{3}{4}$
Shorts	$1\frac{1}{4}$

10. What is the value of the expression $5\frac{5}{8} \div 3\frac{3}{4}$?

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ANSWER KEY | GRADE 6 GENERAL MATH

PART A | Multiple-choice answers (Q1-Q20)

Q1 Understand Ratios

Worked / Learn: Ex 2: C (12 tulips)

1. B - not equivalent
2. B - not equivalent
3. B - 6 cups
4. C - 9 pears

Q2 Understand Ratios

Worked / Learn: Ex 3: B (6 muffins)

5. B - 10 doughnuts
6. B - 4 cups
7. D - 36 players

Q3 Tables of Equivalent Ratios

Worked / Learn: Ex 1: C (24 drops)

1. C - 30 snow cones
2. C - 8 pizzas

Q4 Tables of Equivalent Ratios

Worked / Learn: Ex 2: B (1.5 containers); Ex 3: C (4 scoops)

3. B - 83 skips
4. B - 2 cups
5. C - 98 minutes
6. B - $14
7. C - 25 pencils
8. C - 21 ounces

Q5 Compare Ratio Relationships

Worked / Learn: Learn: B (Recipe B); Ex 2: A (Recipe C)

1. B - Brand B
2. C - Manuel
3. B - White bread

Q6 Convert Customary Measurement Units

Worked / Learn: Learn: C (96 fl oz); Ex 1: B (8 cups)

1. C - 128 fl oz
2. C - 4,400 yd
3. A - 12 cups
4. C - 16,000 oz
5. B - 1.5 tons
6. B - 33 1/3 yd
7. C - 50 gal
8. B - 3 1/2 pints
9. B - 250 quarts
10. C - 16 boxes

Q7 Convert Customary Measurement Units

Worked / Learn: Learn: D (2/3 yard); Ex 2: C (4.96 tons)

Learn / example questions only

Q8 Understand Rates and Unit Rates

Worked / Learn: Learn 1: B (1.5 min/lap); Learn 2: B (2/3 lap/min)

Learn / example questions only

Q9 Understand Rates and Unit Rates

Worked / Learn: Ex 1: C (53 times/sec); Ex 2: A (5-pack at $26/ticket)

1. B - 0.4 km
2. B - $14.50
3. B - 3 beats/sec
4. B - 0.4 lb
5. A - 25 tickets for $10
6. B - 8 mini footballs
7. A - 6-pack tickets
8. C - $8 for 12 oz

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Q10 Solve Rate Problems

1. NO OPTION - $9.00 saved	2. C - 0.5 ft/sec	3. A	$7.50 LESS	4. D - 450 words
5. C - 390 donuts	6. C - 40 jumps			

Q11 Understand Percents

Worked / Learn: Learn: C (70%); Ex 3: B (40%); Ex 4: C (13 sections)

Learn / example questions only

Q12 Understand Percents

1. C - 60%	2. B - 65%	3. B - 12 squares	4. A - 9 squares
5. B - 90%	6. D - 85%	7. A - 25% shaded	8. B - 45 out of 100

Q13 Percents Greater Than 100% and Less Than 1%

Worked / Learn: Learn: C (125%); Ex 1: D (263%)

Learn / example questions only

Q14 Percents Greater Than 100% and Less Than 1%

Worked / Learn: Learn: B (0.93%); Ex 3: B (0.25%)

1. A - 136%	2. D - 116%	3. B - 0.75%	4. C - 0.5%
5. D - 140%	6. B - 0.25%		

Q15 Relate Fractions, Decimals, and Percents

1. C - 9/20	2. B - 18/25	3. C - 4/5	4. B - 0.45
5. C - 0.72	6. A - 0.8	7. A - 15%	8. C - 175%
9. B - 62.5%	10. A - 0.15	11. C - 1.75	12. B - 0.625
13. B - 41/100 and 41%	14. A - 3/10 and 0.3	15. B - 40%, 2/5, 0.4	16. A - 0.85 and 17/20

Q16 Estimate the Percent of a Number

1. C - about 30	2. B - about 20	3. C - about 80	4. C - about 120
5. B - about 20	6. C - about 60	7. C - about $10	8. C - about $130
9. A - about 225	10. C - about 104	11. B - about 125	12. C - about 60

Q17 Divide Multi-Digit Whole Numbers

1. A - 3,472	2. B - 1,480	3. A - 36	4. C - 243.5
5. B - 222.25	6. B - 48.75	7. A - 28.125	8. C - 5.51875
9. C - 36.10625	10. B - 4.175 hours		

Q18 Compute With Multi-Digit Decimals

1. B - 49.982	2. C - 188.275	3. A - 80.027	4. C - 120.395
5. C - 0.031	6. B - 18.2133	7. B - 2,042.125	8. B - 15.3
9. B - 8.52 miles	10. B - 2,971.5		

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Q19 Divide Whole Numbers by Fractions

1. B - 2	2. C - 5	3. B - 1/8	4. B - 5/3
5. B - 10/7	6. C - 12	7. C - 10	8. B - 9
9. B - 11 1/5	10. B - 3 1/3		

Q20 Divide Fractions by Fractions

1. B - 2	2. C - 3	3. B - 6	4. A - 2 2/5
5. D - 3 1/2	6. B - 5	7. A - 2 2/5	

PART B | Graphing and written answers (Q21-Q25)

Q21 Graphs of Equivalent Ratios

Example - Tamara	Beads per charm: 6. Table: (1, 6), (2, 12), (3, 18), (4, 24). Plot these four points; y = 6x.
1 - Lulah	6 balls per package. Ordered pairs: (1, 6), (2, 12), (3, 18), (4, 24). Pattern: the total increases by 6 balls for every additional package; y = 6x.
2 - Sloth	7 feet per minute. Ordered pairs: (1, 7), (2, 14), (3, 21), (4, 28). Pattern: distance increases by 7 feet each minute; y = 7x.
3 - Scrapbooks	Lexi: 4 photos per page (1:4); y = 4x. Audrey: 6 photos per page (1:6); y = 6x.

Q22 Solve Ratio Problems

1	640 students own bicycles.
2	450 students buy lunch.
3	15 baskets (Colin).
4	44 girls.
5	225 students walk to school.
6	120 students belong to a club.
7	480 students prefer potato chips.
8	450 houses do not have swing sets.

Q23 Find the Percent of a Number

1	48 students want to be athletes (12% of 400).
2	42 campers favor fishing (14% of 300).
3	36
4	117
5	205
6	66
7	0.525
8	0.672
9	90 minutes of flash-drive capacity used.

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Q24 Find the Whole Practice

1	25 members
2	64 DVDs
3	$25 (original price)
4	200 students
5	400 pictures
6	$60 (monthly allowance)
7	500 minutes (lunch 45 min + study hall 45 min = 18% of the day)
8	700 students

Q25 Divide with Whole and Mixed Numbers

1	1/2 ÷ 6 = 1/12 yard per bandana.
2	4/5 ÷ 8 = 1/10 ton per customer.
3	2 4/5 ÷ 4 = 7/10
4	6 2/3 ÷ 8 = 5/6
5	4 2/3 ÷ 6 = 7/9
6	3 3/5 ÷ 1 1/2 = 2 2/5
7	3 3/4 ÷ 1 2/3 = 2 1/4
8	4 1/2 ÷ 2 7/10 = 1 2/3
9	3 7/8 ÷ 1 1/4 = 3 1/10; therefore 3 complete pairs of shorts can be made, with 1/8 yard left.
10	5 5/8 ÷ 3 3/4 = 1 1/2

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