☀ SUMMER LEARNING ADVENTURE ☀

Summer Packet 2026

Brooklyn School of Excellence

Read • Explore • Create • Think • Grow

Student Name: _____

Grade Level: _____

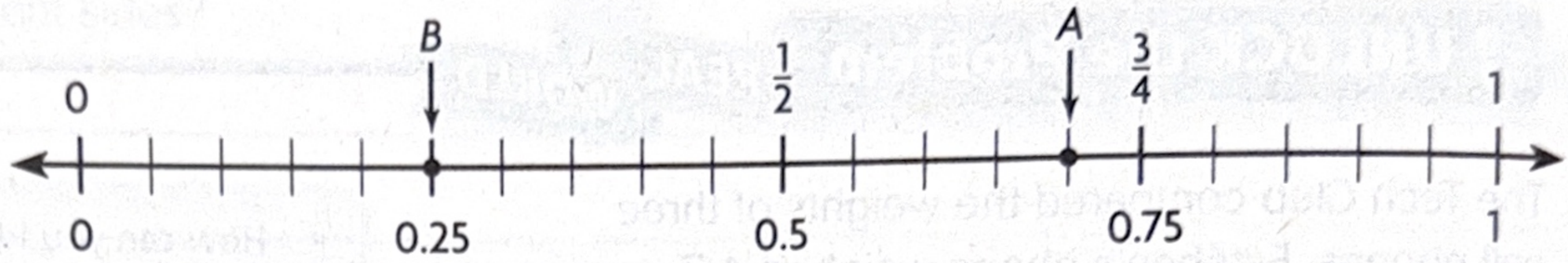
Keep your mind active. Challenge yourself. Return ready to shine!

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MATH BOARD

For 1–2, identify the points on the number line. Then write the greater number.

1. point *A* as a decimal



2. point *B* as a fraction

_____ _____ is greater.

Locate each number on a number line. Then complete the sentence.

3. $0.55, \frac{2}{5}, 0.46$

The number with the greatest value is _____.

On Your Own

Locate each number on a number line. Then complete the sentence.

4. $0.4, \frac{3}{4}, 0.15$

The number with the greatest value is _____.

5. $2\frac{2}{3}, 2.45, 2\frac{2}{5}$

The number with the least value is _____.

6 $3.95, 3\frac{5}{6}, 3\frac{4}{5}$

The number with the greatest value is _____.

Problem Solving

REAL WORLD

7. Hannah made 0.7 of her free throws in a basketball game. Abra made $\frac{9}{10}$ of her free throws. Dena made $\frac{3}{4}$ of her free throws. Who was the best shooter? **Explain.**

_____

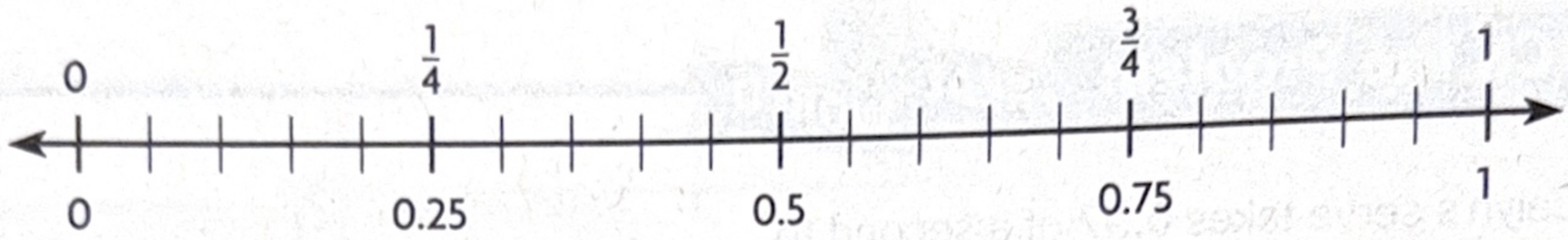
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MATH BOARD

Locate each number on the number line.
Then write the numbers in order from least to greatest.



1. $\frac{3}{5}$, 0.54, 0.35

_____

For 2–3, locate each set of numbers on a number line.
Then write the numbers in order from greatest to least.

2. 1.16, $1\frac{1}{4}$, 1.37, $1\frac{1}{10}$

_____

3. $\frac{5}{8}$, 0.5, $\frac{2}{5}$, 0.78

_____

On Your Own

For 4–5, locate each number on a number line.
Then write the numbers in order from least to greatest.

4. 0.6, $\frac{1}{2}$, $\frac{2}{3}$, 0.39

_____

5. $7\frac{1}{4}$, 7.4, $7\frac{3}{4}$, 7.77

_____

For 6–7, locate each number on a number line.
Then write the numbers in order from greatest to least.

6. $\frac{3}{10}$, 0.222, $\frac{3}{5}$, 0.53

_____

7. 2.96, $3\frac{1}{5}$, 3.48, $3\frac{1}{4}$

_____

Problem Solving REAL WORLD

8. Judges in a skateboarding competition gave scores of 8.2, $8\frac{1}{3}$, $8\frac{4}{5}$, 8.44, and $8\frac{1}{5}$. Which two scores were closest to one another? **Explain**.

_____

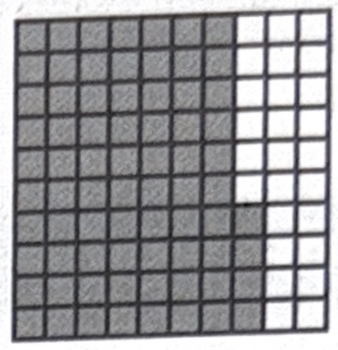
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Use the diagram to write the percent.

1. How many whole columns and single squares are shaded?

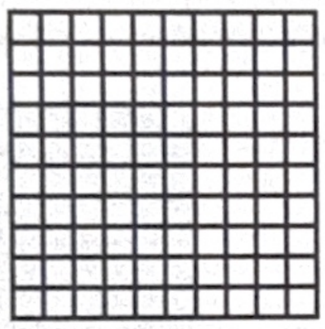


2. What percent is shaded?

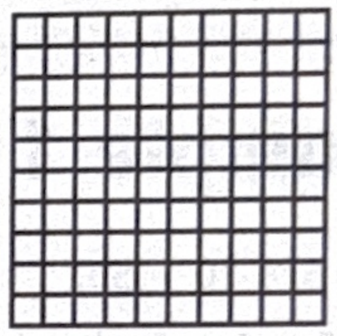
3. What percent is unshaded?

Shade the grid to show the percent.

4. 20 percent

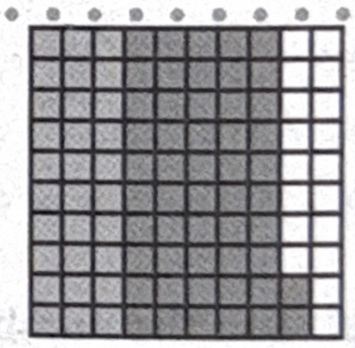


5. 86 percent



On Your Own

Use the diagram to write the percent.



6. light shading

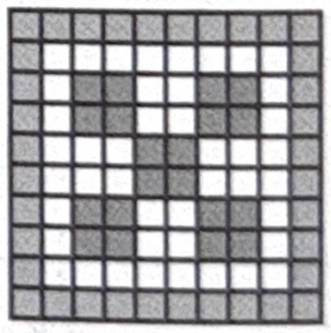
7. dark shading

8. not shaded

9. not shaded

10. dark shading

11. light shading



Write the closest benchmark for the percent.

12. 48%

13. 94%

14. 4%

Problem Solving

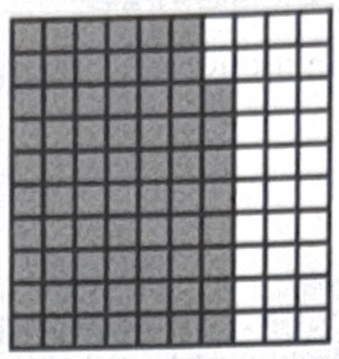
15. In an election between Warren and Jorge, Warren declared victory because he received 58 percent of the vote. Is he correct? **Explain.**

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MATH BOARD

Use the model. Complete each statement.



1a. 0.68 = _____ out of 100

1b. How many squares are shaded?

_____

1c. What percent is shaded?

_____

Write the percents as decimals.

2. 47 percent

_____

3. 11 percent

_____

On Your Own

Write the decimals as percents.

4. 0.20

_____

5. 0.39

_____

6. 0.44

_____

7. 0.93

_____

8. 0.07

_____

9. 0.7

_____

10. 0.06

_____

11. 0.6

_____

Write the percents as decimals.

12. 12 percent

_____

13. 31%

_____

14. 99 percent

_____

15. 13 percent

_____

16. 4 percent

_____

17. 14 percent

_____

18. 90 percent

_____

19. 9%

_____

Problem Solving REAL WORLD

20. In basketball, Linda made 0.56 of her shots. What percent of her shots did Linda miss?

_____

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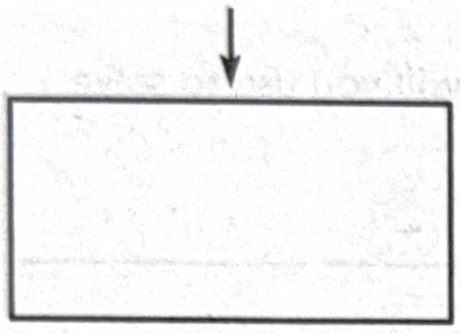
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MATH BOARD

Complete the model to find the quotient. Write the quotient in simplest form.

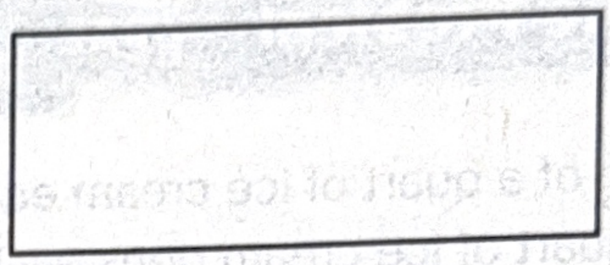
1. $\frac{5}{6} \div 2 =$ _____

Divide the rectangle into sixths.
Shade 5 of the sixths.

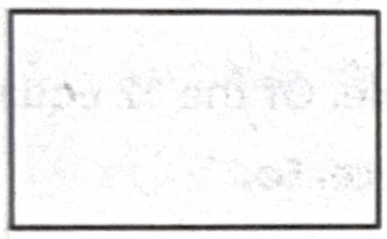


Divide the rectangle into halves. Shade $\frac{1}{2}$ of $\frac{5}{6}$.

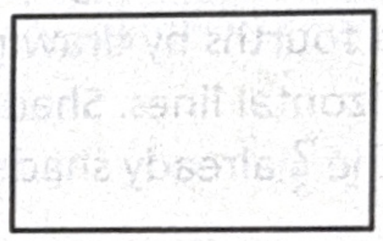
2. $\frac{3}{4} \div 3 =$ _____



3. $\frac{2}{3} \div 3 =$ _____



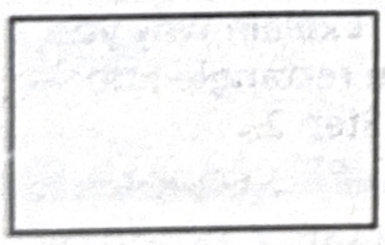
4. $\frac{3}{5} \div 2 =$ _____



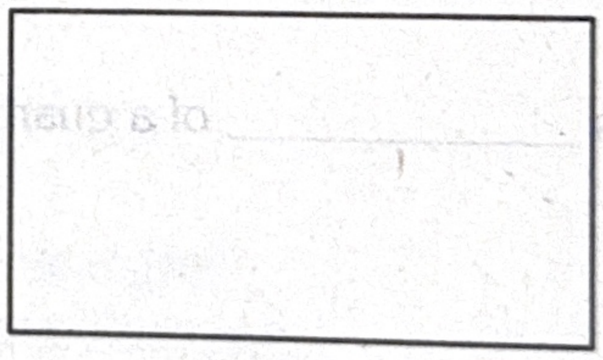
On Your Own

Complete the model to find the quotient. Write the quotient in simplest form.

5. $\frac{2}{5} \div 2 =$ _____



6. $\frac{5}{8} \div 3 =$ _____



Draw a model to find the quotient. Write the quotient in simplest form.

7. $\frac{4}{9} \div 2 =$ _____

8. $\frac{4}{5} \div 3 =$ _____

Problem Solving

REAL WORLD

9. Heather, Jocelyn, and Dane are each swimming one leg of a $\frac{9}{10}$-mile race. They will divide the distance equally. How far will each team member swim?

_____

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MATH BOARD

1. Find the unit rate of speed for 120 miles in 2 hours.

$$\frac{\text{miles}}{\text{hours}} \longrightarrow \frac{120}{\square} = \frac{\square \div 2}{2 \div \square} = \frac{\square}{\square}$$

The unit rate of speed is _____ per _____.

Find the unit rate.

2. $5.00 for 2 T-shirts

_____

3. 200 words in 4 min

_____

4. 150 mi on 10 gal of gas

_____

On Your Own

Write the rate in fraction form.

5. 90 words in 2 min

_____

6. $1.20 for 6 goldfish

_____

7. $0.05 per page

_____

Find the unit rate.

8. $208 for 4 tires

_____

9. 300 mi per 15 gal

_____

10. 240 people per 2 sq mi

_____

Problem Solving

REAL WORLD

11. An ice skating rink charges $1.50 to rent ice skates for 30 minutes. What is the unit rate per hour for renting ice skates?

_____

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1. A cyclist travels 45 miles in 3 hours. What is the cyclist's speed?

Write the formula: $d = \square \times \square$

Replace d with _____.

Replace t with _____.

The rate is _____ miles per hour.

Use the formula $d = r \times t$ to solve. Include the units in your answer.

2. A train travels at an average speed of 80 miles per hour for 5 hours. How far does the train travel?

_____

3. A horse travels at an average speed of 12 miles per hour. How long does it take the horse to travel 60 miles?

_____

On Your Own

Use the formula $d = r \times t$ to solve. Include the unit in your answer.

4. A hiker travels at a speed of 3 miles per hour for 3 hours. How far does the hiker travel in that time?

_____

5. A snail travels at a speed of 2 centimeters per minute. How long does the snail take to travel 30 centimeters?

_____

6. A boat travels 6 miles in 24 minutes. What is the average speed of the boat?

_____

7. $d = 320$ cm

$r =$ _____

$t = 8$ sec

8. $d =$ _____

$r = 50$ km per hr

$t = 6$ hr

9. $d = 150$ ft

$r = 20$ ft per min

$t =$ _____

_____

Problem Solving REAL WORLD

10. In an experiment, Ava found that it took a ball 5 seconds to roll down an 80-foot ramp. What is the average speed of the ball?

_____

11. Jason's family is driving 1,375 miles to Grand Canyon National Park. They plan to drive at an average speed of 55 miles per hour. How long will they be driving to reach the park?

_____

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Write an expression.

Tallahassee's temperature is 15 degrees less than the temperature in Miami.

1a. What operation does the phrase *less than* suggest?

_____

1b. Write a word expression:

_____

1c. Write an expression for Tallahassee's temperature. Let m stand for the temperature in Miami.

_____

1d. Evaluate the expression for Tallahassee's temperature for $m = 90$.

_____

Evaluate each expression for the value given.

2. $b - 45$ for $b = 70$

_____

3. $13 + a$ for $a = 40$

_____

On Your Own

Write an expression.

4. Zeke has some tropical fish, f. Dean gave Zeke 5 new fish. How many fish does Zeke have now?

_____

5. Myra had some candles, c. She used up 12 of them. How many candles does Myra have now?

_____

Evaluate each expression for the value given.

6. $s - 18$ for $s = 80$

_____

7. $49 + k$ for $k = 31$

_____

8. $w \times 6$ for $w = 13$

_____

9. $60 \div n$ for $n = 20$

_____

10. $t \times 12$ for $t = 8$

_____

11. $r - 25$ for $r = 110$

_____

Problem Solving REAL WORLD

12. Keith is 2 inches shorter than his sister. If s represents his sister's height, what expression can you write that represents Keith's height?

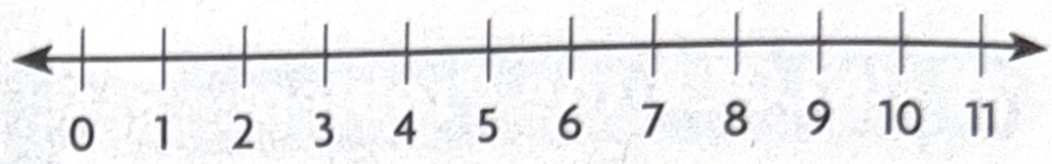
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Of 2, 5, and 8, which numbers are solutions for the inequality $x \geq 5$? Graph the solutions on the number line.

1a. Replace x with 2. True or false?

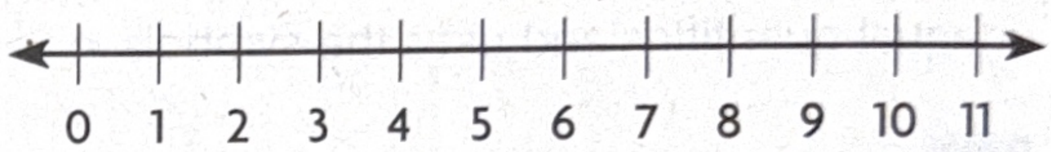


1b. Replace x with 5. True or false?

1c. Replace x with 8. True or false?

Show two solutions for the inequality on a number line.

2. $a < 6$



On Your Own

Of 7, 10, and 13, which numbers are solutions for the inequality?

3. $m > 8$

4. $b \leq 10$

5. $c < 15$

Of 0, 4, 6, and 11, which numbers are solutions for the inequality?

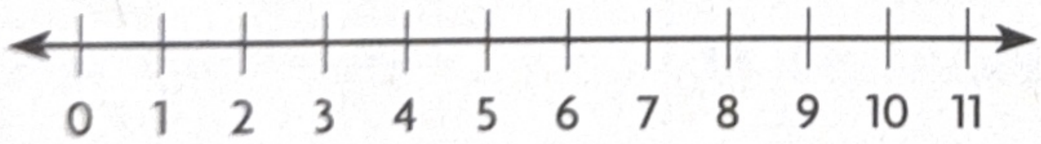
6. $d \geq 8$

7. $r < 1$

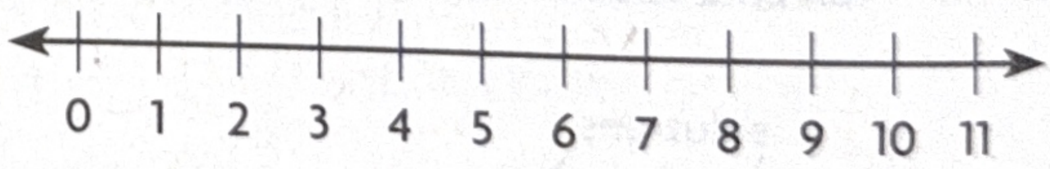
8. $s > 4$

Show two solutions for the inequality on a number line.

9. $n \leq 6$



10. $x > 2$



Problem Solving

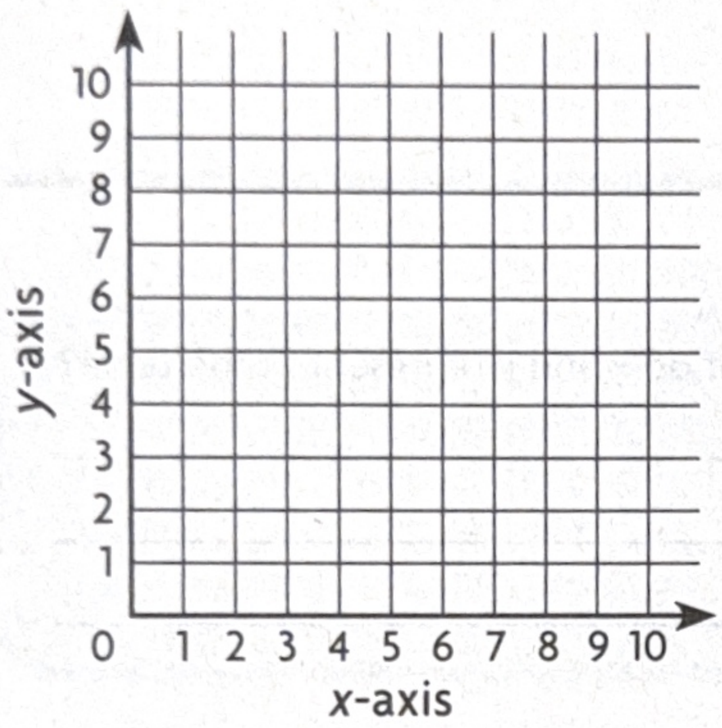
11. For her birthday party, Dina wants to invite at least 8 guests but not more than 12 guests. How many guests might she have? Name all of the possibilities.

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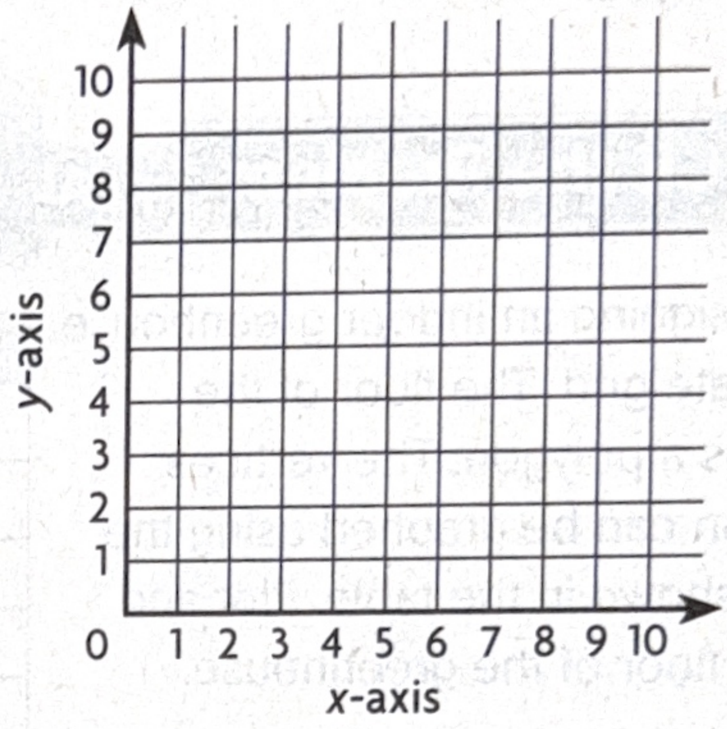
Share and Show

Plot the polygon with the given vertices on a coordinate grid.
Identify the polygon.

1. (9, 6), (1, 7), (3, 1)



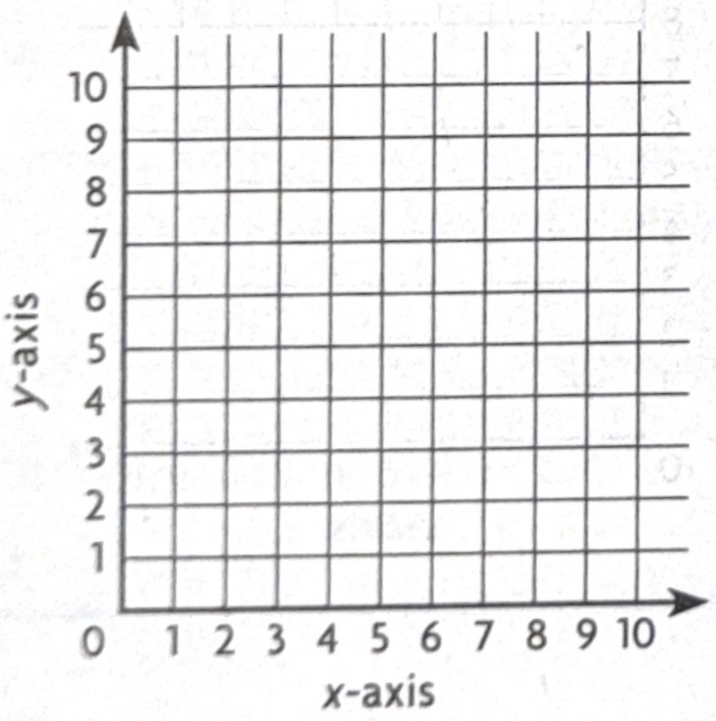
2. (1, 6), (8, 4), (1, 4), (8, 6)



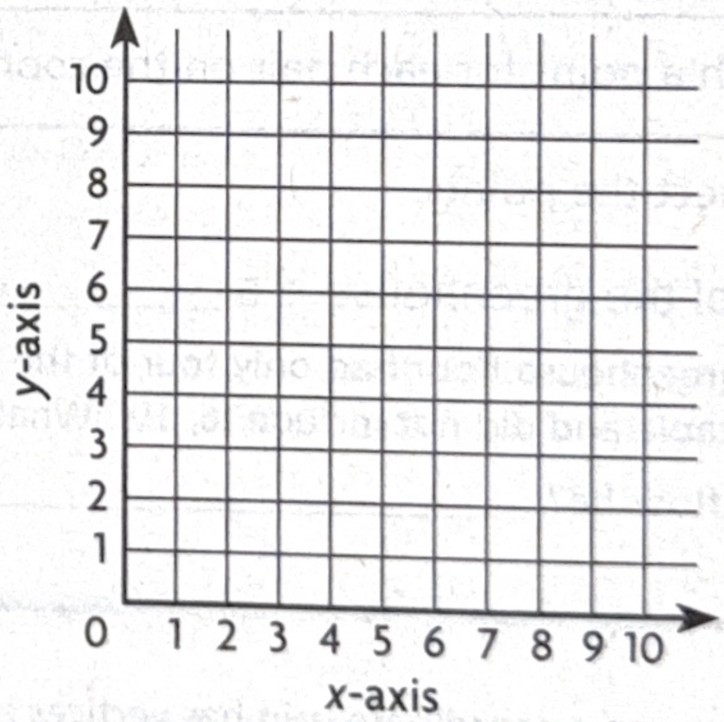
On Your Own

Plot the polygon with the given vertices on a coordinate grid.
Identify the polygon.

3. (2, 10), (10, 2), (10, 10), (2, 2)



4. (10, 4), (2, 10), (3, 1), (8, 0), (7, 10), (1, 7)



Problem Solving

5. A football field is a rectangle measuring 300 ft by 160 ft. Each unit on a coordinate grid represents 1 foot. (0, 0) and (0, 160) are two of the coordinates of a football field drawn on the grid. What are the coordinates of the other two vertices?

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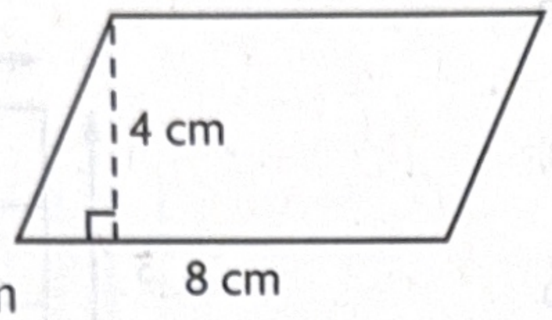
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MATH BOARD

Find the area of the parallelogram.

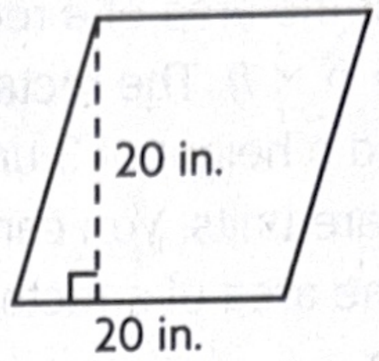
1. $A = b \times h$

$A = 8 \times 4$



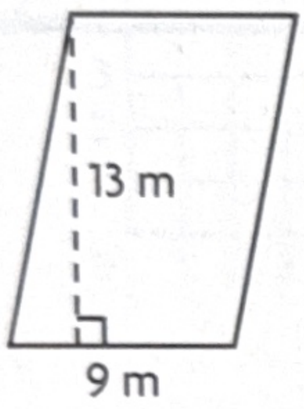
$A =$ _____ sq cm

2.



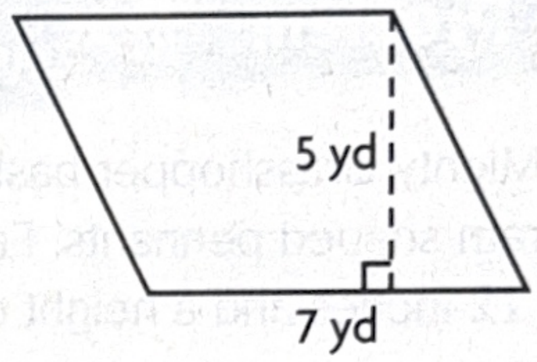
$A =$ _____ sq in.

3.



$A =$ _____ sq m

4.

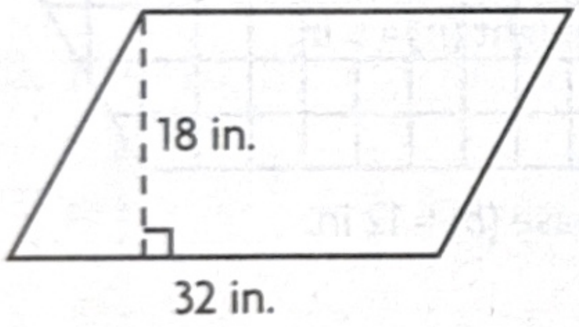


$A =$ _____ sq yd

On Your Own

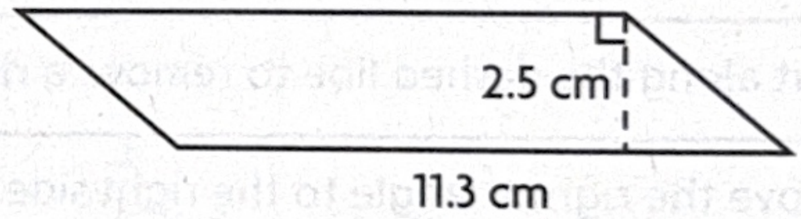
Find the area of the parallelogram.

5.



$A =$ _____ sq in.

6.



$A =$ _____ sq cm

7. base = 0.6 cm

height = 0.15 cm

$A =$ _____ sq cm

8. base = 1.8 m

height = 2.9 m

$A =$ _____ sq m

9. base = $\frac{1}{2}$ ft

height = $\frac{3}{8}$ ft

$A =$ _____ sq ft

10. base = $4\frac{1}{4}$ in.

height = 20 in.

$A =$ _____ sq in.

Problem Solving REAL WORLD

11. Carla made a border for her garden using parallelogram-shaped tiles. Each piece had a base of 4 in. and a height of $2\frac{1}{2}$ in. She used 85 tiles. What was the total area of the border?

_____

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Share and Show

Find the median and the mode of the data.

1. puppies' weights (pounds): 8, 3, 5, 3, 2, 6, 3

   Order the weights: _____

   The median, or middle value, is _____ pounds

   The mode, or most common value, is _____ pounds.

2. numbers of students in math classes: 25, 21, 22, 18, 23, 24, 25

   median: _____ students

   mode: _____ students

3. numbers of 3-point baskets made: 2, 0, 5, 4, 5, 2, 5, 2

   median: _____ 3-point baskets

   mode: _____ 3-point baskets

4. movie ticket prices ($): 8, 8, 6, 8, 7, 6, 8, 10, 8, 6

   median: $_____

   mode: $_____

On Your Own

Find the median and the mode of the data.

5. ages of first 10 U.S. presidents when inaugurated: 57, 61, 57, 57, 58, 57, 61, 54, 68, 51

   median: _____ years

   mode: _____ years

6. weights of rock samples (pounds): 39, 28, 21, 47, 40, 33

   median: _____ pounds

   mode: _____ pounds

7. lengths of humpback whale songs (minutes): 25, 29, 31, 22, 33, 31, 26, 22

   median: _____ minutes

   mode: _____ minutes

8. Sascha's test scores: 90, 88, 79, 97, 100, 97, 92, 88, 85, 92

   median: _____

   mode: _____

Problem Solving REAL WORLD

9. Adrian recorded the daily high temperatures the first two weeks of July. What were the median and mode of her data?

   median: _____ °F

   mode: _____ °F

Daily High Temperatures (°F)						
101	99	98	96	102	101	98
101	98	95	100	102	98	102

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Share and Show

Tommy's basketball scoring record is shown for this month. What was the average number of points that Tommy scored per game?

Game	1	2	3	4	5	6	7	8
Points	24	11	31	14	9	21	18	8

1a. Find the sum of the points Tommy scored.

_____

1b. How many numbers did you add to find the sum in Exercise 1?

_____

1c. Divide the sum by the number of games. What is the average number of points per game?

_____

Find the average of the set of numbers.

2. 6, 9, 14, 4, 12

_____

3. 44, 55, 33, 22, 40, 40

_____

On Your Own

Find the average of the set of numbers.

4. 4, 8, 12, 14, 15, 19

_____

5. 28, 20, 31, 17

_____

6. 100, 140, 60, 120, 180

_____

7. 17, 91, 49, 73, 115, 27

_____

8. 5, 8, 13, 4, 22, 6, 0, 5, 9

_____

9. 637, 492, 88, 743

_____

10. 2,439; 801; 1,508; 0

_____

11. 13, 12, 11, 13, 15, 13, 19, 22, 13, 19

_____

12. 78, 61, 51, 99, 8, 112, 76, 32, 59

_____

13. Find the average temperature.

Day	1	2	3	4	5	6	7
Temperature (°F)	48	59	38	53	61	61	44

_____

Problem Solving REAL WORLD

14. In the temperature table above, suppose the temperature for the next 2 days was 70 degrees. By how much would this change the average temperature over the entire period?

_____

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Share and Show

For 1–3, use the data below.

The number of vacation days that each employee of a company took last summer is given below.

2, 5, 6, 11, 3, 5, 7, 8, 10, 1, 4, 6, 10, 5, 12, 15, 6, 8, 7, 14

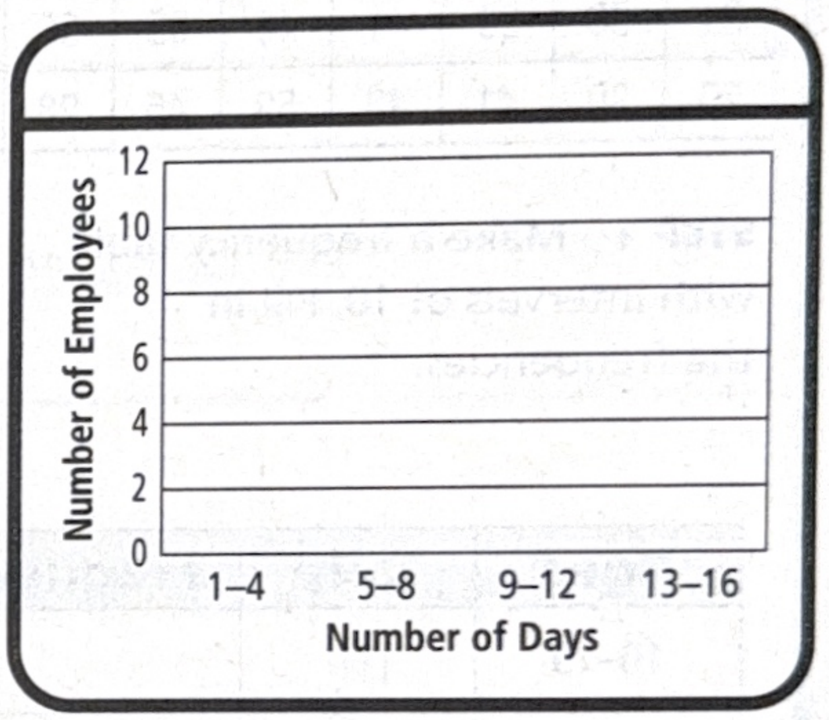
1. Start at 1 day and use 4 days for each interval. List the intervals.

_____

2. Complete the frequency table.

Number of Days	Tally	Frequency
1–4	||||	
5–8	|||| ||||	
9–12	||||	
13–16	||	

3. Complete the histogram.



On Your Own

For 4–6, use the data below.

The number of minutes that each student in Mrs. Green's class spent on homework last night is given below.

45, 30, 55, 35, 50, 48, 60, 38, 47, 56, 40, 39, 55, 65, 49, 34, 35

4. Start at 30 and use 10-minute intervals for the data. List the intervals.

_____

5. Make a frequency table of the data.

6. Make a histogram of the data.

Problem Solving REAL WORLD

7. The number of words per minute that one class of students typed is given below.

   30, 45, 28, 35, 48, 37, 41, 44, 34, 29, 25, 32, 40, 45, 39, 49

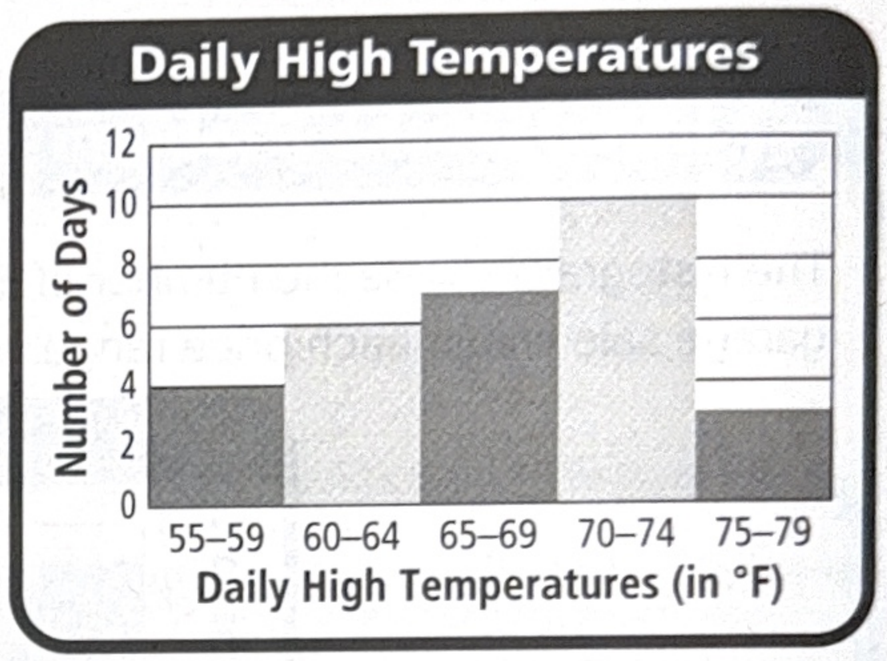
   What are reasonable intervals for the data?

_____

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Share and Show

For 1–3, use the histogram at the right.



1. The histogram shows the number of days in one month whose temperatures were within each temperature range. On how many days was the temperature at or above 70°F?

   - List the bars that represent temperatures at or above 70°F.

     _____ and _____

   - The frequency for interval 70–74 is _____, and the frequency for interval 75–79 is _____.

   - Add the frequencies. _____ + _____ = _____

   The daily high temperature was at or above 70°F on _____ days.

2. On how many days was the temperature 65°F to 69°F?

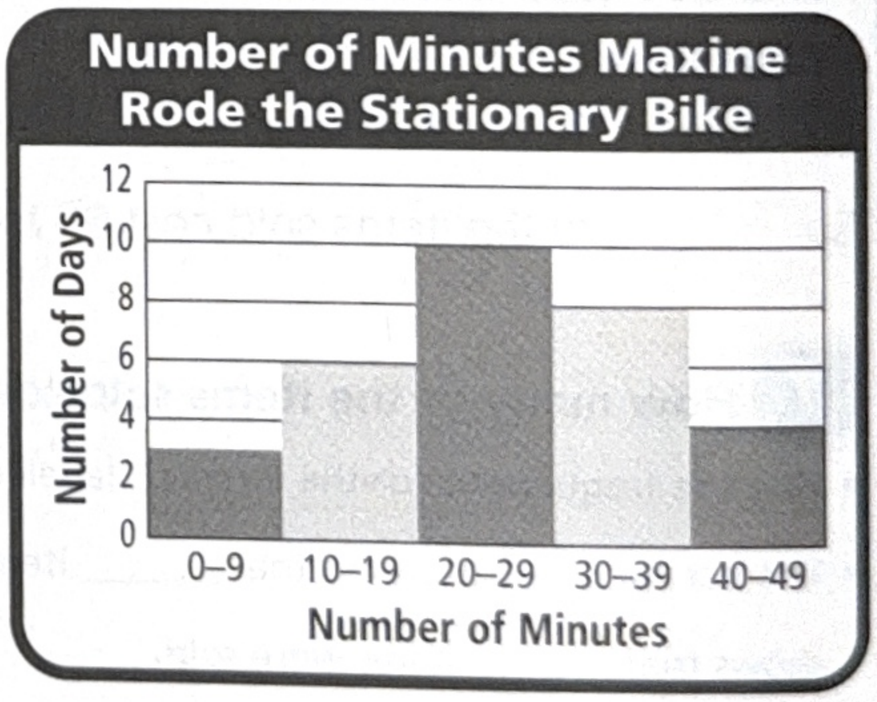
   _____

3. On how many days was the temperature less than 65°F?

   _____

On Your Own

For 4–5, use the histogram at the right.

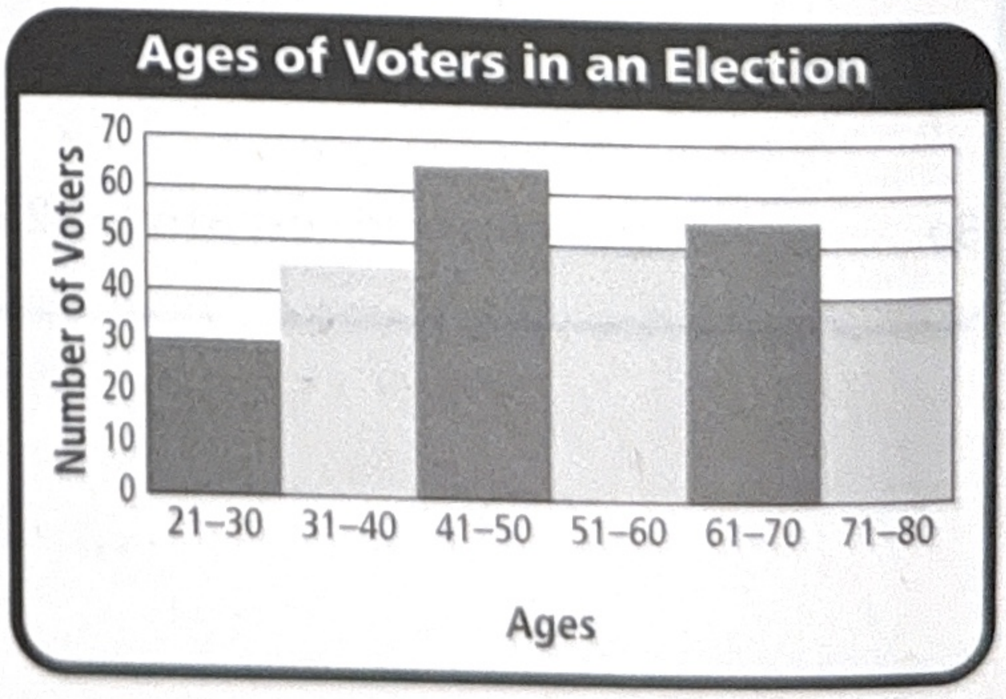


4. Which interval has the greatest frequency? _____

5. How many days did Maxine ride the stationary bike for 30 or more minutes? _____

Problem Solving REAL WORLD

For 6–7, use the histogram at the right.



6. How many people voted in the election?

   _____

7. How many more voters were there from ages 41–50 than from ages 21–30?

   _____

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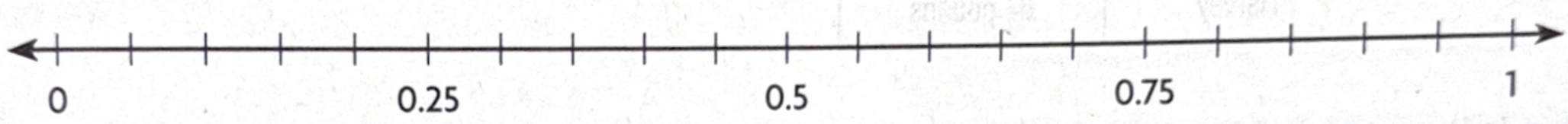
Name _____

Checkpoint

Concepts and Skills

Locate each number on the number line. Then complete the sentence. (pp. P245–P246)

1. $0.4, \frac{3}{5}, 0.35$



The number with the least value is _____.

Write the numbers in order from least to greatest. (pp. P247–P248)

2. $0.4, \frac{3}{5}, 0.55, \frac{1}{4}$

_____

3. $\frac{3}{4}, 0.7, \frac{1}{2}, 0.1$

_____

Use a factor tree to find the prime number factors. (pp. P249–P250)

4. 16

_____

5. 36

_____

6. 42

_____

Write a decimal, a percent, or a simplified fraction. (pp. P251–P256)

7. 0.08 as a percent

_____

8. $\frac{3}{5}$ as a decimal

_____

9. 80% as a fraction

_____

10. $\frac{13}{20}$ as a percent

_____

Problem Solving REAL WORLD

For 11–12, use the data in the table. (pp. P251–P256)

11. What percent of the apes in the Wild Country Zoo are orangutans?

_____

12. One species makes up 40% of the apes in the zoo. Which species is it?

_____

Apes in the Wild Country Zoo	
Species	**Number**
Bonobo	4
Chimpanzee	20
Gorilla	15
Orangutan	11
Total	**50**

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Fill in the bubble or grid completely to show your answer.

TEST PREP

13. Entries for the Lake Manatee Bass Fishing Contest are shown. First place is awarded to the contestant with the heaviest fish.

Lake Manatee Bass Contest	
Contestant	**Weight of fish caught**
George	6.25 pounds
Mia	$6\frac{2}{5}$ pounds
Harvey	$6\frac{1}{3}$ pounds

What is the correct order from first place to third place? **(pp. P247–P248)**

Ⓐ First: George, Second: Mia, Third: Harvey

Ⓑ First: Mia, Second: George, Third: Harvey

Ⓒ First: Mia, Second: Harvey, Third: George

Ⓓ First: Harvey, Second: Mia, Third: George

14. Ric used a factor tree to write 180 as a product of factors that are prime numbers. How many factors were in Ric's product? **(pp. P249–P250)**

Ⓐ 2

Ⓑ 3

Ⓒ 4

Ⓓ 5

15. On Monday, 6% of the students at Riverside School were absent. Written as a decimal, what portion of Riverside's students attended school that day? **(pp. P253–P254)**

Ⓐ 0.06

Ⓑ 0.6

Ⓒ 0.94

Ⓓ 9

16. The Hastings family drove $\frac{12}{25}$ of the distance to Yellowstone National Park on the first day of their vacation. What percent of the distance to the park remained for them to drive? **(pp. P255–P256)**

Ⓐ 12%

Ⓑ 13%

Ⓒ 48%

Ⓓ 52%

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Name _____

Checkpoint

Concepts and Skills

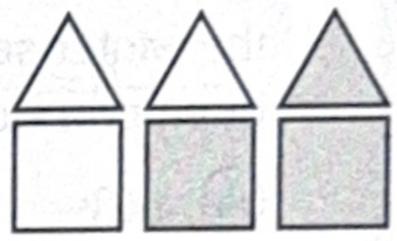
Draw a model to find the quotient. Write the quotient in simplest form. (pp. P259–P260)

1. $\frac{3}{4} \div 3$ _____

2. $\frac{2}{3} \div 5$ _____

3. $\frac{3}{7} \div 2$ _____

For 4–6, use the drawing to write the ratio. (pp. P261–P262)



4. squares to triangles _____

5. total to dark _____

6. triangles to total _____

Write the equivalent ratio. (pp. P263–P264)

7. 8 to 3 = ____ to 12

8. 2 to 6 = 4 to ____

9. 11:4 = ____ :16

Find the unit rate. (pp. P265–P266)

10. 45 visitors with 5 tour guides _____

11. 450 mi on 15 gal of gas _____

12. $56 in 8 hr _____

Use the formula $d = r \times t$ to solve the problem. Include the units in your answer. (pp. P267–P268)

13. d = _____
    r = 40 km per hr
    t = 3 hr

14. d = 90 ft
    r = 10 ft per sec
    t = _____

15. d = 300 mi
    r = _____
    t = 4 hr

Problem Solving REAL WORLD

Use the table for 16–17. (pp. P265–P268)

16. Fuel efficiency can be written as a rate comparing the distance driven to the gallons of gas used. What is the fuel efficiency of Car A written as a unit rate?

_____

17. During the test, Car B was driven at the speed of 48 miles per hour. How long did the test take?

_____

Fuel Test Results		
Car	Distance (in mi)	Gas (in gal)
A	308	14
B	288	12

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Fill in the bubble completely to show your answer.

TEST PREP

18. To make fruit punch for a party, Alison used 3 quarts of pineapple juice and 2 gallons of orange juice. There are 4 quarts in a gallon. What is the ratio of pineapple to orange juice in quarts? **(pp. P261–P262)**

Ⓐ 3 to 2

Ⓑ 3 to 5

Ⓒ 3 to 8

Ⓓ 8 to 3

19. Three out of every 10 pairs of skis sold by Snow Sports are cross-country skis. Snow Sports sold 450 pairs of skis during the winter season. How many of the skis were likely to have been cross-country skis? **(pp. P263–P264)**

Ⓐ 443

Ⓑ 135

Ⓒ 45

Ⓓ 30

20. At Greentree Elementary School, there are 72 fifth graders in 3 classrooms. What unit rate describes this situation? **(pp. P265–P266)**

Ⓐ $14\frac{2}{5}$ fifth graders per class

Ⓑ 18 fifth graders per class

Ⓒ 24 fifth graders per class

Ⓓ 216 fifth graders per class

21. Eduardo rides his bicycle for 6 hours. What was Eduardo's average speed if he rides a distance of 84 miles? Use the formula $d = r \times t$. **(pp. P267–P268)**

Ⓐ 504 mi per hr

Ⓑ 90 mi per hr

Ⓒ 78 mi per hr

Ⓓ 14 mi per hr

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Name _____

Checkpoint

Concepts and Skills

Write an integer to represent the situation. (pp. P271–P272)

1. a shark 125 feet below sea level _____

2. a bank deposit of 300 dollars _____

Write an integer to represent the situation. Then, tell what 0 represents. (pp. P271–P272)

Situation	Integer	What Does 0 Represent?
3. a gain of 13 yards by a football team	_____	
4. a temperature of 25 degrees below zero	_____	

Write an expression. Then evaluate the expression for the value given. (pp. P273–P274)

5. Miki has n dollars. Dora has 3 more dollars than Miki. How many dollars does Dora have? Evaluate for $n = 14$.

_____

6. Chip has s shells. Gina has 4 times as many shells as Chip. How many shells does Gina have? Evaluate for $s = 6$.

_____

Of 1, 3, 4, and 8, which numbers are solutions for the inequality? (pp. P275–P276)

7. $a < 7$ _____

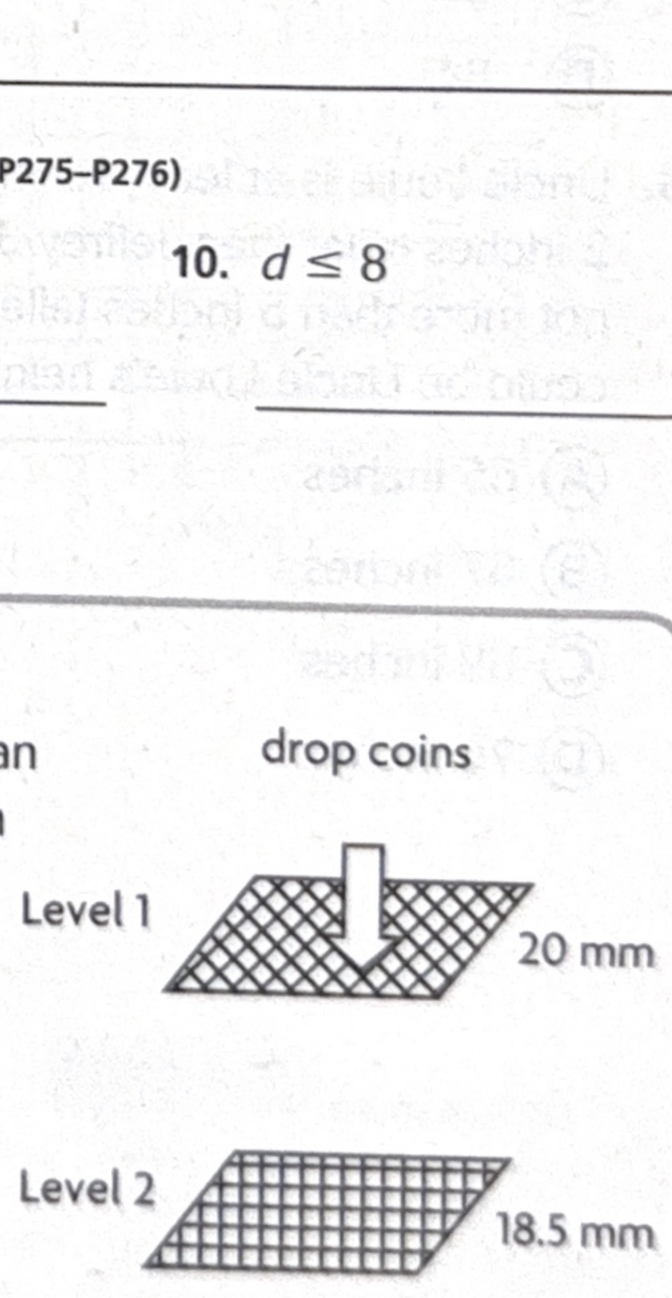
8. $b \geq 3$ _____

9. $c > 4$ _____

10. $d \leq 8$ _____

Problem Solving REAL WORLD

Filters are set up to sort pennies, dimes, and nickels. A penny is 19 mm wide, a dime is 17.9 mm wide, and a nickel is 21 mm wide. Coins less than 20 mm wide will pass through the first level, and coins less than 18.5 mm wide will pass through the second level. (pp. P275–P276)



11. If you drop a large number of all 3 coins from above, which coins will be caught at Level 1? Which coins will pass through?

_____

12. Which coins will be caught at Level 2? Which coins will pass through? _____

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Fill in the bubble completely to show your answer.

TEST PREP

13. The lowest temperature ever recorded in North Dakota was 60 degrees below zero Fahrenheit. Which integer represents the temperature? **(pp. P271–P272)**

Ⓐ 0

Ⓑ 60

Ⓒ $^{-}60$

Ⓓ $^{-}0$

14. In football, a team receives 3 points for each field goal it makes. Which expression shows the number of points a team will receive for making f field goals? **(pp. P273–P274)**

Ⓐ $3 + f$

Ⓑ $3 \times f$

Ⓒ $f - 3$

Ⓓ $f \div 3$

15. The elevation of Central City is 84 feet above sea level. Which integer is the opposite of 84? **(pp. P271–P272)**

Ⓐ 48

Ⓑ $^{+}84$

Ⓒ $^{-}48$

Ⓓ $^{-}84$

16. Uncle Louie is at least 1 inch shorter than Miriam, and at least 2 inches taller than Jeffrey. Jeffrey's height is 64 inches. Miriam is not more than 5 inches taller than than Jeffrey. Which answer choice could be Uncle Louie's height? **(pp. P275–P276)**

Ⓐ 65 inches

Ⓑ 67 inches

Ⓒ 69 inches

Ⓓ 70 inches

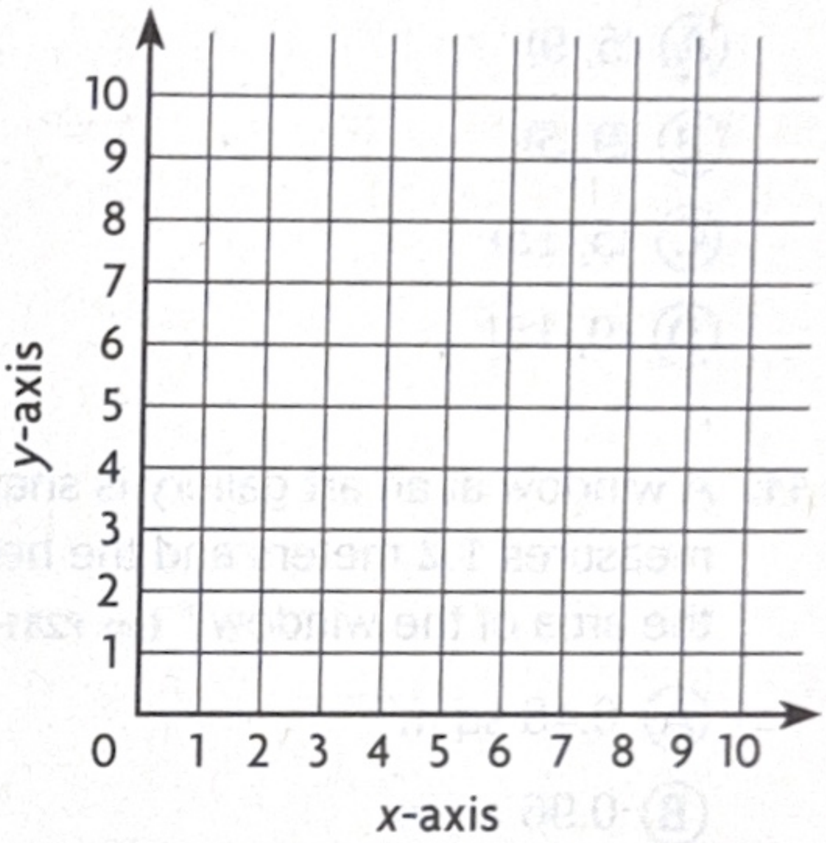
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Name _____

Checkpoint

Concepts and Skills

1. Plot and identify the polygon with vertices at (4, 0), (8, 7), (4, 7), and (8, 0). **(pp. P279–P280)**



_____

2. A parallelogram has a base of 8.5 cm and a height of 6 cm. What is the area of the parallelogram? **(pp. P281–P282)**

_____

3. Find the median and mode of Erin's math sores: 93, 88, 85, 93, 100, 94, 85, 89. **(pp. P283–P284)**

median _____ mode _____

4. Find the average of the following temperatures: 59°F, 66°F, 59°F, 67°F, 54°F, 64°F, 72°F. **(pp. P285–P286)**

average _____

For 5–7, use the data below. **(pp. P287–P290)**

The math test scores for Miss Jackson's class are given below.

88, 94, 86, 78, 65, 83, 71, 74, 92, 73,
95, 71, 100, 98, 68, 85, 81, 93, 89, 84

5. Make a histogram for the data using intervals of 10.

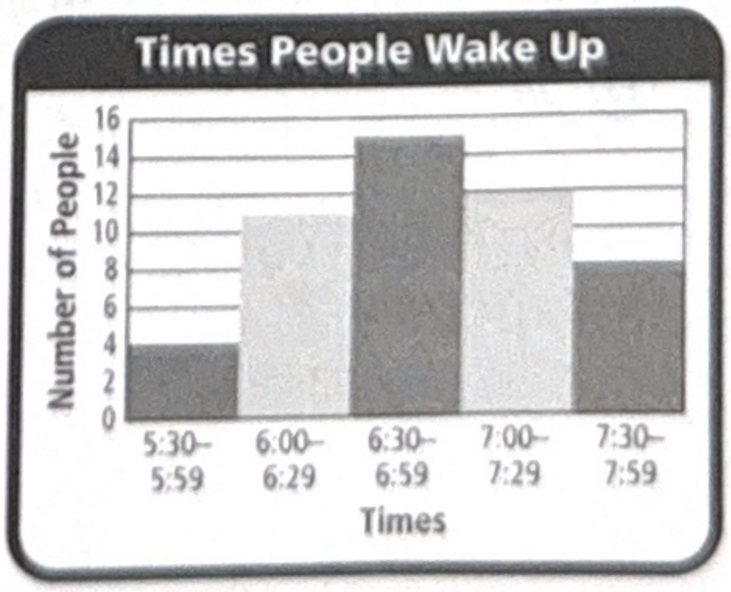
6. Which interval has the greatest frequency?

_____

7. How many students received grades greater than 80? _____

Problem Solving REAL WORLD

For 8–9, use the histogram. The histogram shows the times that people wake up in the morning. **(pp. P287–P290)**



8. How many people were surveyed? _____

9. How many more people surveyed wake up between 6:30 and 6:59 than between 7:30 and 7:59?

_____

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Fill in the bubble completely to show your answer.

TEST PREP

10. On a map of the town of Barton, City Hall Park has three of its four vertices at (15, 0), (5, 0), and (15, 9). City Hall Park is a rectangle. What are the coordinates of the park's fourth vertex? **(pp. P279–P280)**

Ⓐ (5, 9)

Ⓑ (9, 5)

Ⓒ (5, 15)

Ⓓ (9, 15)

11. A window at an art gallery is shaped like a parallelogram. The base measures 1.2 meters and the height measures 0.8 meters. What is the area of the window? **(pp. P281–P282)**

Ⓐ 0.48 sq m

Ⓑ 0.96 sq m

Ⓒ 1.92 sq m

Ⓓ 2.0 sq m

12. The ages of the members of the Chess Club are given below. What is the median age? **(pp. P283–P284)**

13, 9, 10, 9, 14, 13, 8, 9

Ⓐ 9

Ⓑ 9.5

Ⓒ 10

Ⓓ 10.5

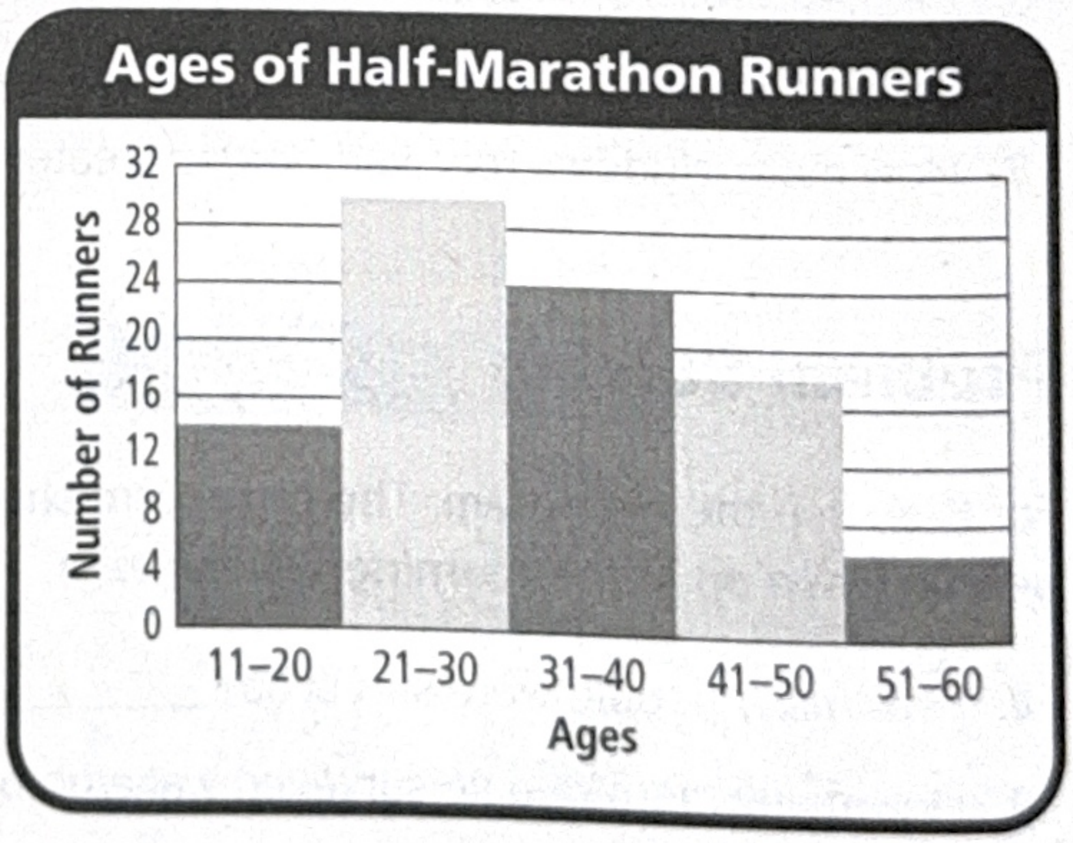
13. The histogram shows the ages of runners in a half-marathon. How many runners are between the ages of 21 and 40? **(pp. P289–P290)**

Ⓐ 24

Ⓑ 30

Ⓒ 42

Ⓓ 54



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