School Closing Math Assignments

In the event that school closes, you will follow the day-to-day assignment schedule below. Assignments are available via Google Classroom. If you are not able to complete your assignments online, hardcopies were given to you on Friday, 3/13, to take home. Any assignments completed during the school closure must be turned in on the first day we return to school.

Day 1

1. Review the notes for 7-1 & 7-2.
2. Complete the 7-1 & 7-2 Google Form.

If you need help, refer to the notes or your online textbook. Your online textbook also has videos available for you to watch as a review.

Day 2

1. Review the notes for 7-3 & 7-4.
2. Complete the 7-3 & 7-4 Google Form.

If you need help, refer to the notes or your online textbook. Your online textbook also has videos available for you to watch as a review.

Day 3

1. Review the notes for 7-5 & 7-6.
2. Complete the 7-5 & 7-6 Google Form.

If you need help, refer to the notes or your online textbook. Your online textbook also has videos available for you to watch as a review.

Day 4

1. Review the notes for 7-5 & 7-6.
2. Complete the 7-5 & 7-6 Google Form.

If you need help, refer to the notes or your online textbook. Your online textbook also has videos available for you to watch as a review.

Day 5

1. Review the notes for chapter 7.
2. Complete the Chapter 7 Google Form.

If you need help, refer to the notes or your online textbook. Your online textbook also has videos available for you to watch as a review.

Lesson 7-1 Notes 2/10

Ex#1 Ratios and Rates

See the following table:

violins	29	violas	12
cellos	10	basses	9
flutes	5	trumpets	3
double reeds	8	percussion	5
clarinets	4	harp	1
horns	6	trombones	3

Writing Ratios (You can write ratios 3 different ways)

① flutes to clarinets: $\frac{5}{4}$ or 5 to 4 or 5:4

Order of #s in ratio must match order of items presented in the question

② trumpets to total instruments: $\frac{3}{95}$ or 3 to 95 or 3:95

③ total instruments to basses: $\frac{95}{9}$ or 95 to 9 or 95:9

Ex#2 Writing Equivalent Ratios

Write 3 equivalent ratios to compare the number of triangles with the number of circles.

○○○○○○ △△△△

# of triangles / # of circles = $\frac{4}{6}$

Now find 2 other equivalent fractions

$\frac{4 \div 2}{6 \div 2} = \frac{2}{3}$ and $\frac{4 \times 2}{6 \times 2} = \frac{8}{12}$

→

Ex #3 Comparing Unit Rates

A 2 liter bottle of soda costs $2.02. A 3 liter bottle of the same soda costs $2.79. Which is the better deal?

2 liter bottle

$1.01 per liter

$2.02 ÷ 2

-2↓

00

-0↓

02

-2

0

3 liter bottle

$.93 per liter

$2.79 ÷ 3

-27↓

09

-9

0

The 3 liter bottle is the better deal (lowest price per liter)

Lesson 7-2 Notes '21/11

Ex #1 Making a Table to find Equivalent Ratios

Use a table to find (3) equivalent ratios

(1) $\frac{8}{3}$ →

8	16	24	32
3	6	9	12

(×2, ×3, ×4 across the top; ×2, ×3, ×4 across the bottom)

The ratios $\frac{8}{3}$, $\frac{16}{6}$, $\frac{24}{9}$, $\frac{32}{12}$ are all equivalent.

(2) 4 to 7 →

4	8	12	16
7	14	21	28

(×2, ×3, ×4 across the top; ×2, ×3, ×4 across the bottom)

All you are doing is multiplying the top and bottom number by 2, 3, & 4.

The ratios 4 to 7, 8 to 14, 12 to 21, and 16 to 28 are all equivalent.

(3) 40 : 16 →

40	20	10	5
16	8	4	2

(÷2, ÷2, ÷2 across the top; ÷2, ÷2, ÷2 across the bottom)

When given a larger ratio to start, divide (by 2 if they're both even numbers

(4) 12 to 60 →

12	6	3	1
60	30	15	5

(÷2, ÷2, ÷3 across the top; ÷2, ÷2, ÷3 across the bottom)

Notice in this example, you needed to divide by 3 in the final step

Ex #2 Word Problem Application

A group of 10 friends is in line to see a movie. The table shows how much different groups will pay in all. Predict how much a group of 10 will pay.

Number in Group	3	5	6	12	← 10
Amount Paid ($)	15	25	30	60	

I notice that to go from the top to bottom number, you multiply by 5.

3 (x5)	5 (x5)	6 (x5)	12 (x5)	so... 10 (x5)
15	25	30	60	$50

A group of 10 will pay $50.

Or, try this way... find another ratio in the table that could help you ← 10

3	5	6	12
15	25	30	60

↑ I see these numbers. Work with 10.

Set it up this way:

$$\frac{5}{25} = \frac{10}{?}$$

$$\frac{5}{25} \overset{\times 2}{=} \frac{10}{50}$$

Objective: I can learn to write ratios and rates and to find unit rates.

For a time, a local symphony orchestra was made up of 95 musicians.

Violins	29	Violas	12
Cellos	10	Basses	9
Flutes	5	Trumpets	3
Double reeds	8	Percussion	5
Clarinets	4	Harp	1
Horns	6	Trombones	3

You can compare the different groups by using ratios.

RATIO: You can compare the different groups by using ratios. A ratio is a comparison of two quantities using division.

For example, you can use a ratio to compare the number of violins (29) with the number of violas (12). This ratio can be written in three ways.

Terms $\frac{29}{12}$ 29 to 12 29:12

Notice that the ratio of violins to violas, $\frac{29}{12}$ is different from the ratios of violas to violins, $\frac{12}{29}$. The order of the terms is important.

Ratios can be written to compare a part to a part, a part to a whole, or the whole to a part.

EXAMPLE #1

Use the table to write the ratio.

Animals at the Vet	
Cats	5
Dogs	7
Rabbits	2

cats to rabbits

part to part $\frac{5}{2}$ or 5 to 2 or 5:2

dogs to total number of pets

part to whole $\frac{7}{14}$ or 7 to 14 or 7:14

total number of pets to cats

whole to part $\frac{14}{5}$ to 14 to 5 or 14:5

EXAMPLE #2

Use the table to write the ratio.

Animals at the Vet

Birds	6
Hamsters	9
Snakes	3

(1) birds to total number of pets (part to whole)

$\frac{6}{18}$ or 6 to 18 or 6:18

(2) snakes to birds part to part

$\frac{3}{6}$ or 3 to 6 or 3:6

(3) total number of pets to hamsters whole to part

$\frac{18}{9}$ or 18 to 9 or 18:9

EQUIVALENT RATIOS: are ratios that name the same comparison. You can find an equivalent ratio by multiplying or dividing both terms of a ratio by the same number.

EXAMPLE #3

Write three equivalent ratios to compare the number of diamonds to the number of spades in the pattern.

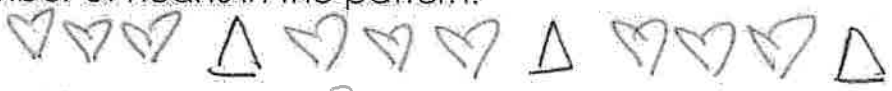
number of diamonds / number of spades $= \frac{3}{6}, \frac{1}{2}, \frac{9}{18}$ equivalent ratios

$\frac{3}{6} = \frac{3 \div 3}{6 \div 3} = \frac{1}{2}$

$\frac{3}{6} = \frac{3 \cdot 3}{6 \cdot 3} = \frac{9}{18}$

EXAMPLE #4

Write three equivalent ratios to compare the number of triangles to the number of hearts in the pattern.



number of triangles / number of hearts $= \frac{3}{9}, \frac{1}{3}, \frac{9}{27}$ equivalent ratios

$\frac{3}{9} = \frac{3 \div 3}{9 \div 3} = \frac{1}{3}$

$\frac{3}{9} = \frac{3 \cdot 3}{9 \cdot 3} = \frac{9}{27}$

RATE: A rate compares two quantities that have different units of measure.

Suppose a 2-liter bottle of soda costs $1.98.

$$\text{rate} = \frac{\text{price}}{\text{number of liters}} = \frac{\$1.98}{2 \text{ liters}}$$

UNIT RATE: When the comparison is to one unit, the rate is called a unit rate. Divide both terms by the second term to find the unit rate.

$$\text{unit rate} = \frac{\$1.98}{2}$$

$$\begin{array}{r} 0.99 \\ 2\overline{)1.98} \\ -0\downarrow \\ \hline 19 \\ -18\downarrow \\ \hline 18 \\ -18 \\ \hline 0 \end{array}$$

$0.99 for 1 liter

When the prices of two or more items are compared, the item with the lowest unit rate is the best deal.

EXAMPLE #5

A 3-pack of paper towels costs $2.79. A 6-pack of the same paper towels costs $5.46. Which is the better deal?

$2.79
3 rolls

$0.93 for 1 roll

$5.46
6 rolls

$0.91 for 1 roll

The 6-pack of paper towels is the better deal.

EXAMPLE #6

A 3-pack of juice boxes costs $2.10. A 9-pack of the same juice boxes costs $5.58. Which is the better deal?

$2.10
3 pack

$0.70 for 1 juice box

$5.58
9 pack

$0.62 for 1 juice box

The 9-pack of juice boxes is the better deal.

7-1 & 7-2

Ratios and Rates
Using Tables to Explore Equivalent Ratios and Rates
* Required

1. Write your first and last name. *

2. 1. Write three equivalent ratios for 4:8. *

Write the ratio of hearts to diamonds.

$\frac{\text{hearts}}{\text{diamonds}} = \frac{4}{8}$

3. 2. Which is the better deal - an 8 oz package of pretzels for $1.92 or a 12 oz package of pretzels for $2.64? *

4. 3. Find three equivalent ratios for 3/10. *

Use a table to find three ratios equivalent to 6:7.

6	12	18	24
7	14	21	28

Multiply the numerator and denominator by 2, 3, and 4.

The ratios 6:7, 12:14, 18:21, and 24:28 are equivalent.

_____

5. 4. Find three equivalent ratios for 5 to 21. *

_____

6. 5. Find three equivalent ratios for 15:7. *

_____

7. 6. The table shows the cost of canoeing for different-sized groups. Predict how much a group of 9 will pay. *

Number in Group	2	4	8	10
Cost ($)	10.50	21	42	52.50

_____

8. 7. Use the table to write the ratio for music programs to art programs. *

Jacqueline's Software Collection	
Educational games	16
Word processing	2
Art programs	10
Arcade games	10
Music programs	3

9. 8. A 6-ounce bag of raisins costs $2.46. An 8-ounce bag of raisins costs $3.20. Which is the better deal? *

10. 9. Barry earns $36.00 for 6 hours of yard work. Henry earns $24.00 for 3 hours of yard work. Who has the better hourly rate of pay? *

11. 10. Find three equivalent ratios for 4 to 7. *

12. 11. Find three equivalent ratios for 10/3. *

13. 12. Find three equivalent ratios for 2:5. *

14. 13. Find three equivalent ratios for 8 to 9. *

15. 14. Find three equivalent ratios for 3 to 15. *

16. 15. Find three equivalent ratios for 30/90. *

17. 16. Find three equivalent ratios for 1:3. *

18. 17. Find three equivalent ratios for 7/2. *

19. 18. Britney does sit-ups every day. The table shows how long it takes her to do different number of sit-ups. How long do you predict it will take Britney to do 120 sit-ups? *

Number of Sit-Ups	10	30	50	200	220
Time (min)	2	6	10	40	44

20. 19. The School Supply Store has markers on sale. The table shows some sale prices. How much do you predict you would pay for 10 markers? *

Number of Markers	12	8	6	4	2
Cost ($)	9.00	6.00	4.50	3.00	1.50

21. 20. Fred is saving for a new sound system. The table shows some amounts he could save in different numbers of weeks. Predict the amount of his savings after 10 weeks. *

Weeks	4	8	12
Savings	50	100	150

Lesson 7-4 Notes 1/25/19

Ex#1 Modeling Proportions

Write a proportion for the model:

△△△△ ○○○

$\frac{\text{triangles}}{\text{circles}} = \frac{4}{2}$ * Find 2 other equivalent ratios, or proportions, to $\frac{4}{2}$ (find equivalent fractions)

$\frac{4}{2} \div 2 = \frac{2}{1}$ $\quad \frac{4}{2} \times 2 = \frac{8}{4}$

$\frac{4}{2} = \frac{2}{1}$ $\quad \frac{4}{2} = \frac{8}{4}$ $\quad \frac{4}{2} = \frac{12}{6}$ These are all proportions

Ex#2 Using Cross Products to Complete Proportions

① Find the missing value

$\frac{3}{4} \quad \frac{n}{16}$ ① Find the cross products

$4 \times n = 16 \times 3$

$4n = 48$ ② Divide by the number with the variable

$\frac{4n}{4} = \frac{48}{4}$

$n = 12$

→ You can think of it this way too:

② $\frac{12}{9} \quad \frac{n}{3}$ ① Multiply the 2 numbers that are diagonal

② Divide by the number diagonal of the variable

$12 \times 3 = 36 \div 9 = 4$ $\quad n = 4$ →

Ex #3 Measurement Application

The label from a bottle of pet vitamins shows recommended dosages. What dosage would you give an adult dog that weighs 15 lbs?

$\frac{1 \text{ tsp}}{20 \text{ lbs}} = \frac{V}{15 \text{ lbs}}$ ← let "V" represent the amount of vitamins for a 15 lb dog

$\frac{1 \text{ tsp}}{20 \text{ lbs}} \quad \frac{V}{15 \text{ lbs}}$

① Multiply the numbers diagonal from each other

② Divide by the number diagonal from the variable

$1 \times 15 = 15 \div 20$

$\frac{15}{20}$ *write it as a fraction (This still says "15 ÷ 20")

$\frac{15 \div 5}{20 \div 5} = \frac{3}{4}$ tsp Simplify if needed.

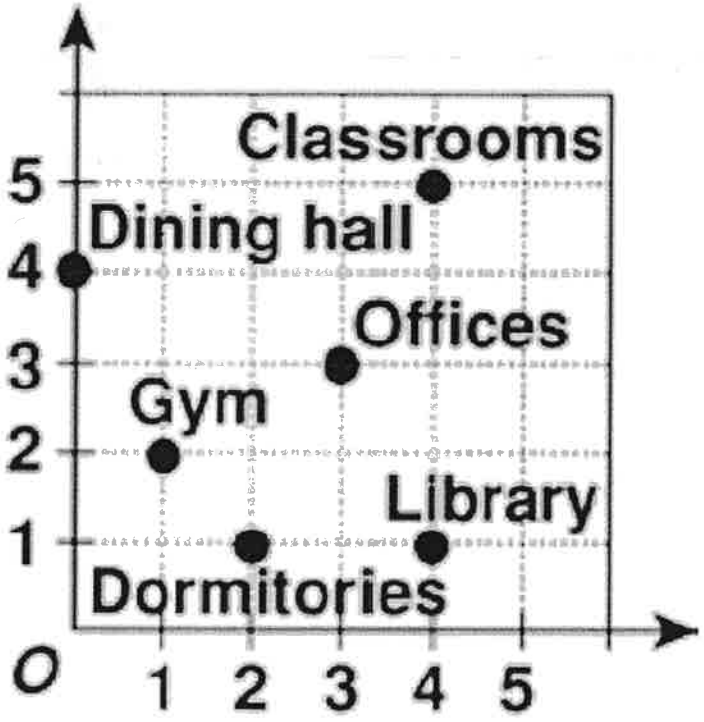
7-3 & 7-4

Ordered Pairs
Proportions
* Required

1. Write your first and last name. *

_____

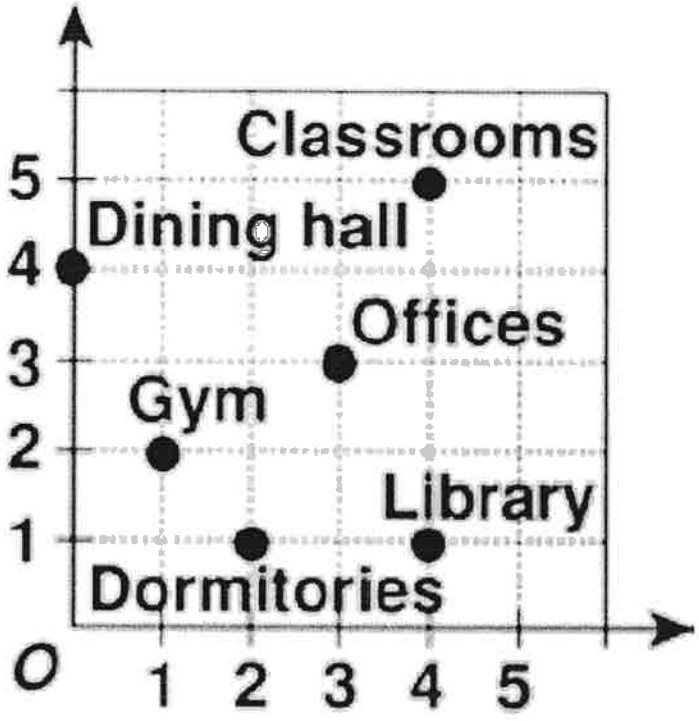
2. 1. Where is gym located on the grid? * 1 point



Mark only one oval.

- ◯ (0, 4)
- ◯ (3, 3)
- ◯ (1, 2)
- ◯ (4, 1)

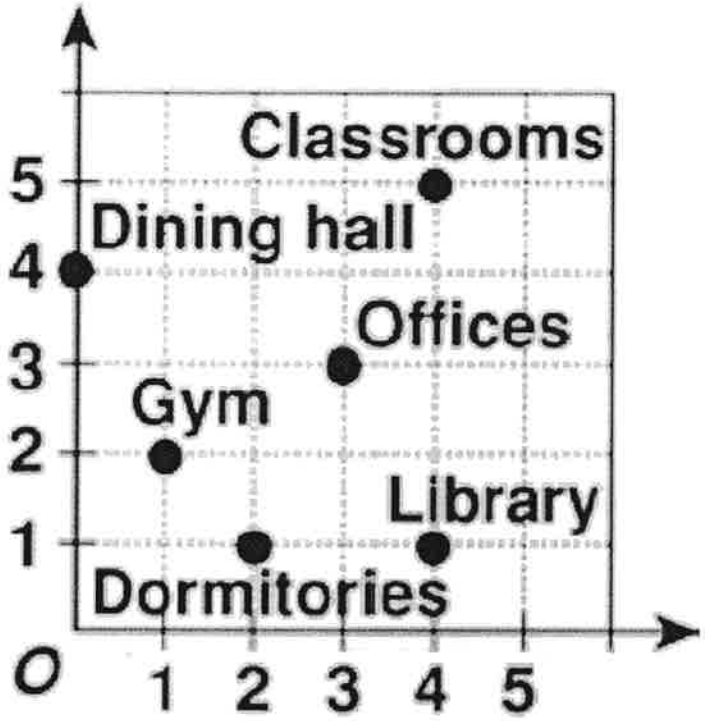
3. 2. Where is the dining hall located on the grid? * 1 point



Mark only one oval.

- (4, 5)
- (0, 4)
- (2, 1)
- (7, 12)

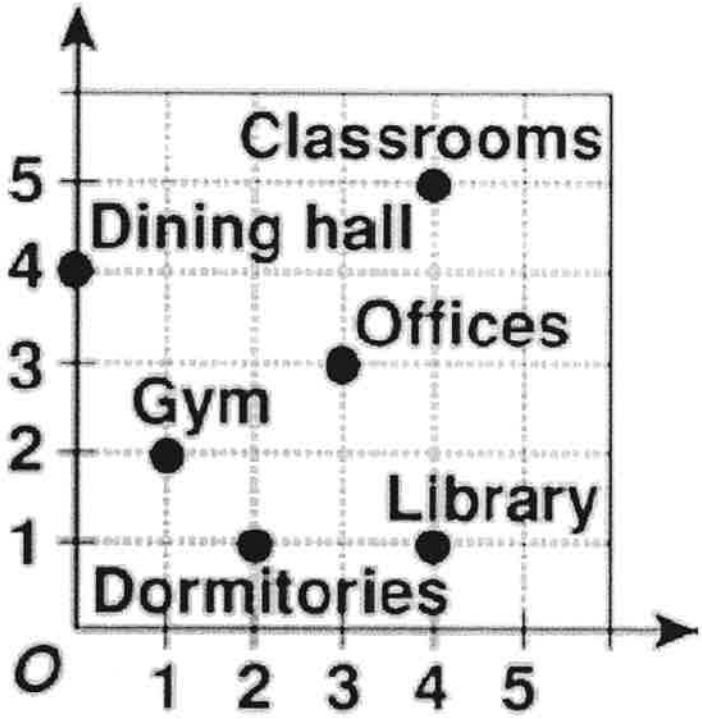
4. 3. Where are the offices located on the grid? * 1 point



Mark only one oval.

- (3, 3)
- (4, 1)
- (4, 5)
- (2, 1)

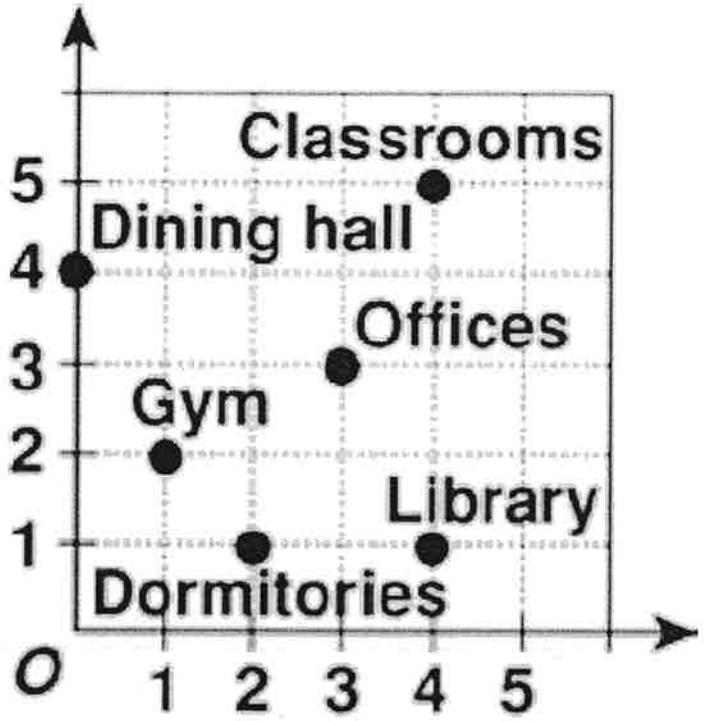
5. 4. Where is the library located on the grid? * 1 point



Mark only one oval.

- ◯ (5, 2)
- ◯ (2, 3)
- ◯ (6, 8)
- ◯ (4, 1)

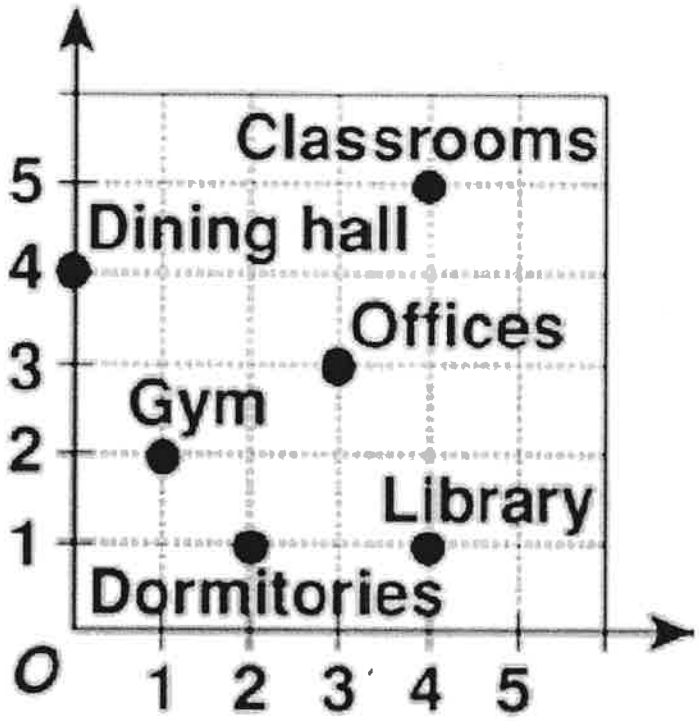
6. 5. Where are the classrooms located on the grid? * 1 point



Mark only one oval.

- (2, 1)
- (7, 12)
- (4, 5)
- (5, 2)

7. 6. Where are the dormitories located on the grid? * 1 point



Mark only one oval.

- (1, 2)
- (2, 1)
- (6, 8)
- (1, 7)

8. 7. On a map of his neighborhood, Mark's house is located at point (7, 3). His best friend, Cheryl, lives 2 units west and 1 unit south of him. What ordered pair describes the location of Cheryl's house on their neighborhood map? * 1 point

Mark only one oval.

- (5, 2)
- (2, 3)
- (1, 4)
- (6, 1)

9. 8. Quan used a coordinate grid map of the zoo during his visit. Starting at (0, 0), he walked 3 units up and 4 units to the right to reach the tiger cages. Then he walked 1 unit down and 1 unit left to see the pandas. Describe the directions Quan should walk to get back to his starting point. * 1 point

Mark only one oval.

- ◯ walk 1 unit down and 6 units to the left
- ◯ walk 8 units up and 2 units to the right
- ◯ walk 1 units up and 7 units to the right
- ◯ walk 2 units down and 3 units to the left

10. 9. Find the missing value in each proportion. * 1 point

$$\frac{24}{8} = \frac{n}{2}$$

Mark only one oval.

- ◯ n = 45
- ◯ n = 30
- ◯ n = 6
- ◯ n = 2

11. 10. Find the missing value in each proportion. * 1 point

$$\frac{4}{9} = \frac{20}{n}$$

Mark only one oval.

- n = 6
- n = 45
- n = 14
- n = 10

12. 11. Find the missing value in each proportion. * 1 point

$$\frac{n}{36} = \frac{5}{6}$$

Mark only one oval.

- n = 30
- n = 4
- n = 65
- n = 10

13. 12. Find the missing value in each proportion. * 1 point

$$\frac{n}{5} = \frac{4}{10}$$

Mark only one oval.

- n = 4
- n = 6
- n = 2
- n = 9

14. 13. Find the missing value in each proportion. * 1 point

$$\frac{3}{9} = \frac{2}{n}$$

Mark only one oval.

- n = 6
- n = 12
- n = 3
- n = 4

15. 14. Find the missing value in each proportion. * 1 point

$$\frac{6}{n} = \frac{3}{7}$$

Mark only one oval.

- n = 11
- n = 16
- n = 4
- n = 14

16. 15. Find the missing value in each proportion. * 1 point

$$\frac{5}{3} = \frac{n}{6}$$

Mark only one oval.

- n = 4
- n = 1
- n = 10
- n = 12

17. 16. Find the missing value in each proportion. * 1 point

$$\frac{9}{6} = \frac{6}{n}$$

Mark only one oval.

- n = 7
- n = 4
- n = 50
- n = 13

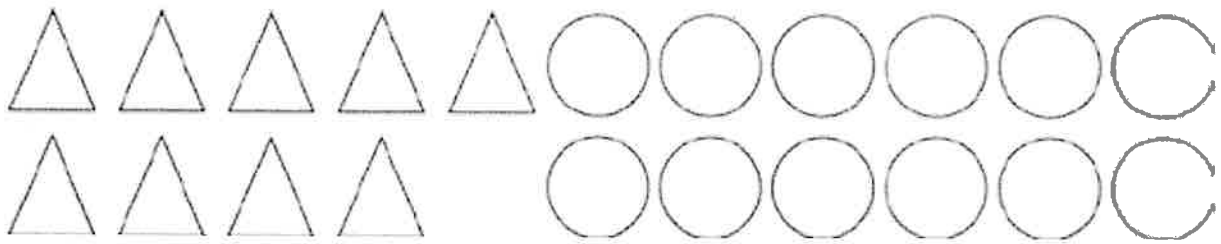
18. 17. Find the missing value in each proportion. * 1 point

$$\frac{2}{130} = \frac{1}{n}$$

Mark only one oval.

- n = 65
- n = 80
- n = 18
- n = 4

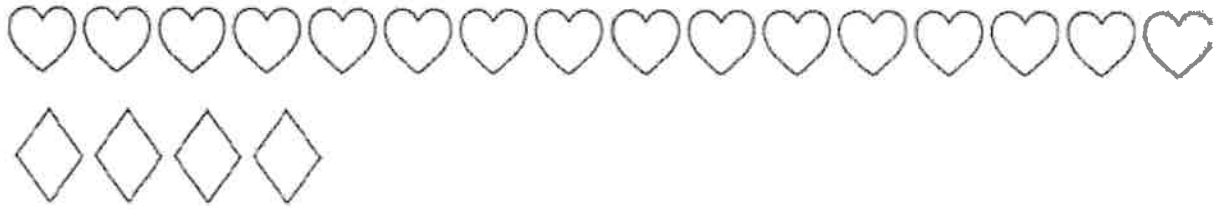
19. 18. Write a proportion for the model. * 1 point



Mark only one oval.

- 14/2
- 72/7
- 14/3.50
- 9/12

20. 19. Write a proportion for the model. * 1 point



Mark only one oval.

- 4/16
- 1/4
- 16/4
- 12/7

21. 20. Shane's neighbor pledged $1.25 for every 0.5 miles that Shane swims in the charity swim-a-thon. If Shane swims 3 miles, how much money will his neighbor donate? * 1 point

Mark only one oval.

- ◯ $80.00
- ◯ $7.50
- ◯ $3.50
- ◯ $12.00

Lesson 7-5 Notes 2/19/20

Ex#1 Writing Percents as Fractions

Write these percents in simplest form

$40\% = \frac{40}{100}$ simplify $\frac{40 \div 20}{100 \div 20} = \frac{2}{5}$

$55\% = \frac{55 \div 5}{100 \div 5} = \frac{11}{20}$

% → percent; "out of 100"

$3\% = \frac{3}{100}$ (already in simplest form)

$25\% = \frac{25 \div 25}{100 \div 25} = \frac{1}{4}$

$80\% = \frac{80 \div 20}{100 \div 20} = \frac{4}{5}$

Ex#2 Writing Percents as Decimals

$24\% = \frac{24}{100} \rightarrow .24$ *How you read $\frac{24}{100}$ is how you write it as a decimal (twenty four hundredths)

$75\% = \frac{75}{100} \rightarrow .75$ $29\% = \frac{29}{100} \rightarrow .29$

$4\% = \frac{4}{100} \rightarrow .04$ $7\% = \frac{7}{100} \rightarrow .07$

$92\% = \frac{92}{100} \rightarrow .92$

Lesson 7-6 Notes 2/20/20

Ex#1 Write each decimal as a percent.

① 0.3 Multiply by 100. That means all you have to do is move the decimal point 2 places to the right.

0.30. = 30%

② 0.43

0.43. = 43%

③ 0.7431

0.7431 = 74.31%

④ 0.023

0.023 = 2.3%

⑤ 0.8

0.80. = 80%

Ex#2 Write each fraction as a percent.

① $\frac{4}{5}$ → One way to solve could be to make an equivalent fraction with 100 as a denominator

$\frac{4}{5} = \frac{X}{100}$

$\frac{4}{5} \overset{\times 20}{=} \frac{80}{100}$ = 80%

② $\frac{11}{25}$

$\frac{11}{25} = \frac{X}{100}$

$\frac{11}{25} \overset{\times 4}{=} \frac{44}{100}$ = 44%

→

→ Another way to change fractions to percents is to divide.

① $\frac{3}{8}$ *Can't make an equivalent fraction to $\frac{x}{100}$, so you have to divide

$$\begin{array}{r} .375 \\ 8\overline{)3.000} \\ -24\downarrow \\ \hline 60 \\ -56\downarrow \\ \hline 40 \end{array}$$

.375 Next, multiply by 100, which means move the decimal 2 places to the right.

.375 = 37.5%

② $\frac{7}{12}$

$$\begin{array}{r} .58\overline{3} \\ 12\overline{)7.0000} \\ -60\downarrow \\ \hline 100 \\ -96\downarrow \\ \hline 40 \\ -36\downarrow \\ \hline 40 \end{array}$$

.58$\overline{3}$ = 58.3%

③ $\frac{5}{6}$

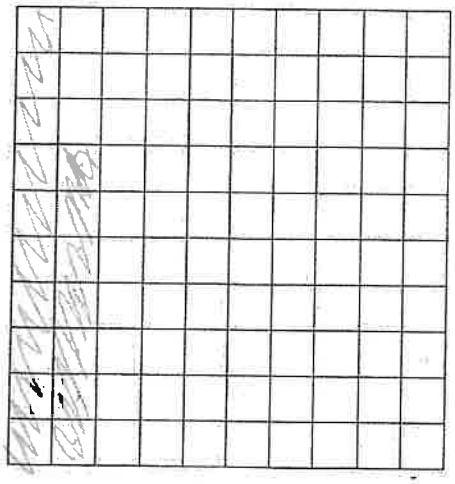
$$\begin{array}{r} .83\overline{3} \\ 6\overline{)5.000} \\ -48\downarrow \\ \hline 20 \\ -18\downarrow \\ \hline 20 \end{array}$$

.83$\overline{3}$ = 83.3%

7-5 NOTES
PERCENTS

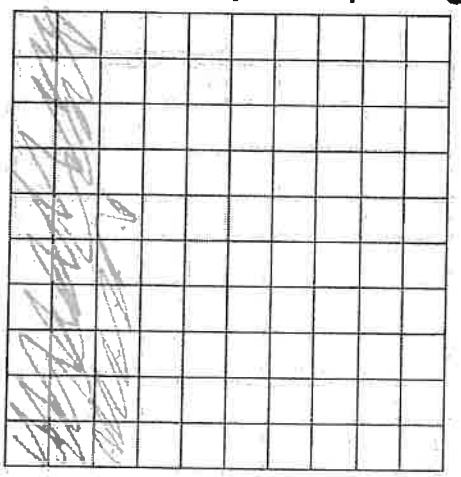
Objective: I can learn to write percents as decimals and as fractions.

1. Use a 10-by-10-square grid to model 17%.



$\frac{17}{100}$

2. Use a 10-by-10-square grid to model 26%.



$\frac{26}{100}$

3. Write 35% as a fraction in simplest form.

$35\% = \frac{35}{100}$

$\frac{35 \div 5}{100 \div 5} = \frac{7}{20}$

4. Write 65% as a fraction in simplest form.

$65\% = \frac{65}{100}$

$\frac{65 \div 5}{100 \div 5} = \frac{13}{20}$

5. Janell has 20% body fat. Write 20% as a fraction in simplest form.

$20\% = \frac{20}{100}$

$\frac{20 \div 20}{100 \div 20} = \frac{1}{5}$

6. Timmy has 14% body fat. Write 14% as a fraction in simplest form.

$14\% = \frac{14}{100}$

$\frac{14 \div 2}{100 \div 2} = \frac{7}{50}$

7. Write 56% as a decimal.

$56\% = \frac{56}{100}$

0.56

$100\overline{)560}$

-500

600

-600

0

$56\% = 0.56$

Remember!

To divide by 100, move the decimal point two places to the left. $56 \div 100 = 0.56$

8. Write 32% as a decimal.

$32\% = \frac{32}{100}$

32%

$32\% = 0.32$

0.32

$100\overline{)320}$

300

200

-200

0

9. Water made up 85% of the fluids that Kirk drank yesterday. Write 85% as a decimal.

$85\% = \frac{85}{100}$

$85 \div 100 = 0.85$

10. Water made up 95% of the fluids that Lisa drank yesterday. Write 95% as a decimal.

$95\% = \frac{95}{100}$

$95\% = 0.95$

$3\% = 0.03$

$15\% = 0.15$

7-5 & 7-6

Percents
Percents, Decimals, and Fractions
* Required

1. Write your first and last name. *

_____

2. 1. Write 30% as a fraction in simplest form. * 1 point

Mark only one oval.

- 3/10
- 21/50
- 9/50
- 7/20

3. 2. Write 18% as a fraction in simplest form. * 1 point

Mark only one oval.

- 1/1
- 1
- 9/50
- 29/100

4. 3. Write 100% as a fraction in simplest form. * 1 point

Mark only one oval.

- ◯ 14/25
- ◯ 7/10
- ◯ 1/4
- ◯ 1

5. 4. Write 56% as a fraction in simplest form. * 1 point

Mark only one oval.

- ◯ 14/25
- ◯ 0.19
- ◯ 21/25
- ◯ 2/8

6. 5. Write 25% as a fraction in simplest form. * 1 point

Mark only one oval.

- ◯ 2/4
- ◯ 1/4
- ◯ 8/1
- ◯ 8/8

7. 6. Write 45% as a decimal. * 1 point

Mark only one oval.

- 0.03
- 0.8
- 0.45
- 0.24

8. 7. Write 80% as a decimal. * 1 point

Mark only one oval.

- 0.8
- 0.24
- 0.06
- 21/25

9. 8. Write 6% as a decimal. * 1 point

Mark only one oval.

- 0.21
- 0.25
- 0.40
- 0.06

10. 9. Chloe swam 40 laps in the pool, but this was only 50% of her total swimming workout. How many more laps does she still need to swim? * 1 point

Mark only one oval.

- 40 more laps
- 1 more lap
- 17 more laps
- 25 more laps

11. 10. Write 0.03 as a percent. * 1 point

Mark only one oval.

- 3%
- 18%
- 70%
- 26%

12. 11. Write 0.18 as a percent. * 1 point

Mark only one oval.

- 100%
- 20%
- 18%
- 5%

13. 12. Write 0.7 as a percent. * 1 point

Mark only one oval.

- 70%
- 7%
- 0.7%
- 700%

14. 13. Write 0.26 as a percent. * 1 point

Mark only one oval.

- 11%
- 25%
- 26%
- 15%

15. 14. Write 1.0 as a percent. * 1 point

Mark only one oval.

- 100%
- 10%
- 1%
- 0.1%

16. 15. Write 1/5 as a percent. * 1 point

Mark only one oval.

- 70%
- 5%
- 20%
- 2%

17. 16. Write 1/20 as a percent. * 1 point

Mark only one oval.

- 5%
- 8%
- 17%
- 19%

18. 17. Write 4/50 as a percent. * 1 point

Mark only one oval.

- 21%
- 8%
- 23%
- 64%

19. 18. 0.4 _____ 2/5 * 1 point

Mark only one oval.

- ◯ <
- ◯ >
- ◯ =

20. 19. 1/100 _____ 0.03 * 1 point

Mark only one oval.

- ◯ <
- ◯ >
- ◯ =

21. 20. 3/10 _____ 35% * 1 point

Mark only one oval.

- ◯ <
- ◯ >
- ◯ =

7-7 & 7-8

Percent of a Number
Solving Percent Problems
* Required

1. Email address *

_____

2. Write your first and last name. *

_____

3. 1. 25% of 56 * 1 point

Mark only one oval.

- ◯ 14
- ◯ 7.5
- ◯ 60
- ◯ 7

4. 2. 5% of 150 * 1 point

Mark only one oval.

- ◯ 187.5
- ◯ 319.8
- ◯ 7.5
- ◯ 495

5. 3. 125% of 48 * 1 point

Mark only one oval.

- 96
- 60
- 13.6
- 17

6. 4. 2% of 350 * 1 point

Mark only one oval.

- 7
- 116
- 124
- 435

7. 5. 150% of 125 * 1 point

Mark only one oval.

- 6
- 8
- 3
- 187.5

8. 6. 78% of 410 * 1 point

Mark only one oval.

- 15
- 81
- 319.8
- 72

9. 7. 55% of 900 * 1 point

Mark only one oval.

- 495
- 961
- 171
- 361

10. 8. 75% of 128 * 1 point

Mark only one oval.

- 77
- 47
- 96
- 22

11. 9. 16% of 85 * 1 point

Mark only one oval.

- 0.77
- 22.5
- 16.2
- 13.6

12. 10. 0.7% of 110 * 1 point

Mark only one oval.

- 0.95
- 213.2
- 0.77
- 0.5

13. 11. 50 is 40% of what number? * 1 point

Mark only one oval.

- 125
- 501
- 200
- 133

14. 12. 18 is what percent of 60? * 1 point

Mark only one oval.

- 12%
- 30%
- 62%
- 20%

15. 13. 4% of what number is 25? * 1 point

Mark only one oval.

- 200
- 407
- 625
- 889

16. 14. What percent of 55 is 22? * 1 point

Mark only one oval.

- 40%
- 50%
- 60%
- 70%

17. 15. 15 is 30% of what number? * 1 point

Mark only one oval.

- ◯ 40
- ◯ 50
- ◯ 60
- ◯ 70

18. 16. 10% of what number is 14? * 1 point

Mark only one oval.

- ◯ 110
- ◯ 120
- ◯ 130
- ◯ 140

19. 17. What percent of 32 is 4? * 1 point

Mark only one oval.

- ◯ 16.4%
- ◯ 12.5%
- ◯ 5.21%
- ◯ 4.61%

20. 18. 1% of what number is 11? * 1 point

Mark only one oval.

- 1,870
- 1,965
- 2,042
- 1,100

21. 19. The sales tax on $750 computer at J&M Computers is $48.75. What is the sales tax rate? * 1 point

Mark only one oval.

- 6.5%
- 7.5%
- 8.5%
- 9.5%

22. 20. A hardcover book sells for $24 at The Bookmart. Ben pays a total of $25.02 for the book. What is the sales tax rate? * 1 point

Mark only one oval.

- 1.50%
- 2.25%
- 4.25%
- 3.20%

CHAPTER 7

Proportional Relationships

* Required

1. Email address *

_____

2. Write your first and last name. *

_____

3. 1. Carrie purchased 16 lemons for $4.00. What was the unit rate? * 1 point

Mark only one oval.

- ◯ $0.25 per lemon
- ◯ $4.00 per lemon
- ◯ $8.00 per lemon
- ◯ 16 lemons per $4.00

4. 2. Which of these sets of ratios is equivalent to 10:16? * 1 point

Mark only one oval.

- ◯ 4:10, 20:32, 30:48
- ◯ 5:8, 12:18, 30:48
- ◯ 4:10, 20:26, 40:46
- ◯ 5:8, 20:32, 40:64

5. 3. The table shows how much Barry earns at his part-time job. Predict Barry's earnings for 9 hours of work. * 1 point

Hours	2	4	6	8
Pay	$14.50	$29.00	$43.50	$58.00

Mark only one oval.

- ◯ $7.25
- ◯ $9.00
- ◯ $65.25
- ◯ $6525

6. 4. * 1 point

What is the missing value in the proportion $\frac{x}{12} = \frac{15}{18}$?

Mark only one oval.

- ◯ 6
- ◯ 10
- ◯ 14
- ◯ 22

7. 5. What is 77.2% written as a decimal? * 0 points

Mark only one oval.

- 0.0772
- 0.772
- 7.72
- 77.2

8. 6. What is 0.73 as a percent? * 1 point

Mark only one oval.

- 0.73%
- 7.3%
- 73%
- 73/100

9. 7. What is 193% of 640? * 1 point

Mark only one oval.

- 1,235.2
- 595.2
- 558
- 44.8

10. 8. What is 0.7% of 40? * 1 point

Mark only one oval.

- 0.28
- 2.8
- 28
- 280

11. 9. 237% of what number is 948? * 1 point

Mark only one oval.

- 94.8
- 400
- 600
- 2,246.76

12. 10. A set of trading cards sells for $8.95 before tax. After sales tax, it costs $9.60. What is the sales tax rate? * 1 point

Mark only one oval.

- 0.65%
- 6.77%
- 7.26%
- 13.77%