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End of Term One Revision
Academic Year 2019/2020

Part I

Circle the letter corresponding to the correct answer.

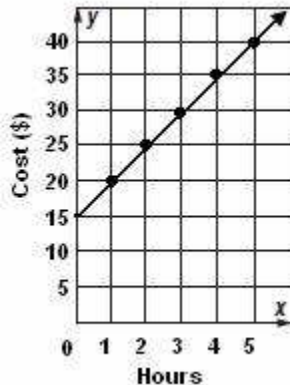
1. Ahmed can travel $24\frac{3}{4}$ miles in $\frac{1}{2}$ hour. What is his average speed in miles per hour?

- a. 45 mph b. 49.5 mph c. 55 mph d. 60 mph

2. What is the solution of the proportion $\frac{22}{11} = \frac{r}{13}$?

- a. 26 b. 18 c. 6.5 d. 3.18

3. River Adventures charges \$15 to rent a canoe plus \$5 per hour. Use the graph below to determine whether the cost of the canoe is proportional to the number of hours it is rented.



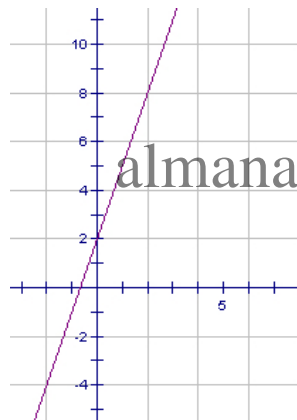
- a. proportional; the graph is a straight line and the rate of change is constant.
b. not proportional; the graph is a straight line, but does not pass through the origin
c. proportional; the graph is a straight line through the origin
d. not proportional; the graph is not a straight line

4. What is the constant rate of change between the quantities in the table?

Time (min)	Water left in pool (gal)
10	80
20	60
30	40
40	20

- a. -20 gal per minute c. 2 gal per minute
b. -2 gal per minute d. -10 gal per minute

5. What is the slope of the line shown in the graph?

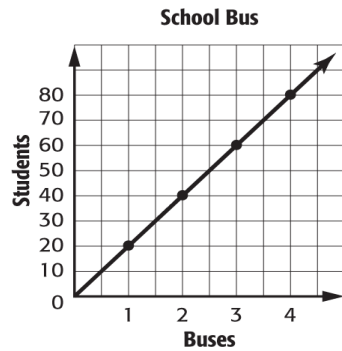


- a. 3 c. -3
b. -1 d. 2

6. A car travels 195 miles in 3 hours. Assuming that the distance the car travels varies directly with the time, how far will the car travel in 5.5 hours?

- a. 357.5 miles c. 220.5 miles
b. 300 miles d. 195 miles

7. What is the constant rate of change of the graph below?



- a. 20
- b. 10
- c. 3
- d. 2

8. What is the constant rate of change of the table below?

Hours	2	4	6	8
Miles	70	140	210	280

- a. 105 miles per hour
- b. 70 miles per hour
- c. 50 miles per hour
- d. 35 miles per hour

9. The table shows the cost for ordering a certain number of pizzas. What is the value of x if the cost is proportional to the number of pizzas ordered?

Pizzas Ordered	2	3	4	5
Cost	\$19.98	\$29.97	\$39.96	x

- a. \$9.99
- b. \$29.97
- c. \$49.95
- d. \$59.94

Part II

Show all the details when answering these questions.

10. The costs of different sizes of bottled sport drink are shown. Which bottle costs the least per ounce?

1. Size	2. 8 oz	3. 16 oz	4. 24 oz	5. 32 oz
6. Price	7. \$0.89	8. \$1.09	9. \$1.89	10. \$2.39

11. Simplify

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

b. $\frac{6}{\frac{2}{3}}$

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12. Determine if the situations represent proportional relationships. Then explain your reasoning.

The table shows the amount Maggie earns each hour she babysits.

Earnings(\$)	12	18	24
Time (h)	2	3	4

13. Maha can fill 18 glasses with 2 containers of iced tea. How many glasses can she fill with 3 containers of tea?

14. Majed can type 153 words in 3 minutes. At this rate, how many words can he type in 10 minutes?

15. Suhaila is making pillows for her Life Skills class. She bought $2\frac{1}{2}$ meters of fabric. Her total cost was AED15. What was the cost per meter?

16. Convert.

a. $105.6 \text{ L/h} = \underline{\hspace{2cm}} \text{ L/min}$

b. $45 \text{ km/h} = \underline{\hspace{2cm}} \text{ m/s}$

17. Solve each equation.

a. $\frac{2}{3} = \frac{18}{x+5}$

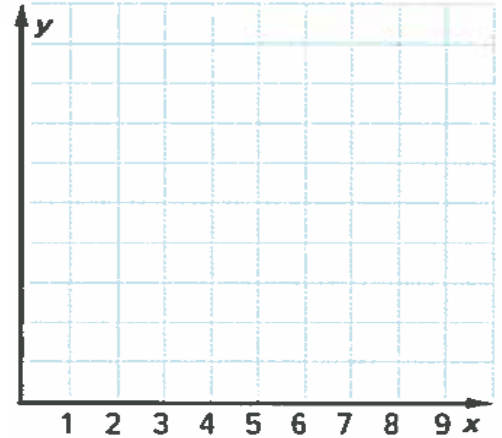
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b. $\frac{x-4}{10} = \frac{7}{5}$

18. The table to the right shows the number of markers per box.

Boxes	1	2	3	4
Markers	8	16	24	32

- Graph the data.
- Find the slope of the line.
- Explain what the slope represents.

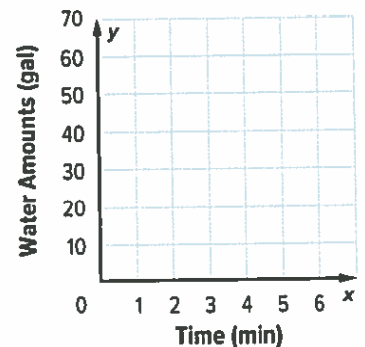


19. If y varies directly with x , write an equation for the direct variation. The find each value.

- If $y = 14$ when $x = 8$, find y when $x = 12$.
- Find x when $y = 14$, if $y = 7$ when $x = 8$.

20. Khaled is in charge of the community swimming pool. Each spring he drains it in order to clean it. Then he refills the pool, which holds 120,000 gallons of water. Khaled fills the pool at a rate of 10 gallons each minute.

- What is the rate at which Khaled will fill the pool? Is it constant?
- Graph the relationship on the grid shown.
- Write an equation for the direct variation.



Part I

Circle the letter corresponding to the correct answer.

1. Antonio earns \$7.65 per hour. How much money does he make if he works 8 hours?

- a. \$61.20
- b. \$612.00
- c. \$60.80
- d. \$6.12

2. Estimate 74% of 587.

- a. 450
- b. 500
- c. 385
- d. 412

3. 40 is what percent of 25?

- a. 62.50%
- b. 16%
- c. 160%
- d. 10%

4. What number is 34% of 65?

- a. 22.1
- b. 52.3
- c. 41.2
- d. 19.1

5. 102 is 6% of what number?

- a. 1.7
- b. 1700
- c. 170
- d. 17

6. 72 is 48% of what number?

- a. 89
- b. 150
- c. 34.56
- d. 130

7. The average price for gasoline rose from \$2.85 to \$3.24 in one day. Find the percent increase.

- a. 13.7%
- b. 39%
- c. 21.4%
- d. 12%

8. A sweater costs \$37.99, and the sales tax in the area is 6.0%, what is the total price of the sweater?

- a. \$40.27
- b. \$23.75
- c. \$35.84
- d. \$60.79

9. A backpack is on sale for 30% off. If the sale price is \$15.75, what is the original price to the nearest cent?

- a. \$22.50
- b. \$4.7
- c. \$11.05
- d. \$4.725

10. How much would a bicycle cost if it were marked down 15% from its original price of \$289?

- a. \$340.00
- b. \$245.6
- c. \$43.35
- d. \$332.35

11. Determine the amount of interest owed after 2 years on a \$850 loan at 12.25% if no payments are made.

- a. \$1058.25
- b. \$208.25
- c. \$104.13
- d. \$745.87

12. Saif has lunch at a restaurant. If his bill was \$14.50 and Saif wants to leave a 20% tip, what is the amount he should leave for the tip?

- a. \$17.40
- b. \$11.60
- c. \$2.90
- d. \$1.44

13. What is each percent of change?

\$300 to \$200

- a. 100%; decrease
- b. 50%; decrease
- c. 33%; decrease
- d. 33%; increase

14. \$10% lump, 5% tax

- a. \$0.5
- b. \$9.50
- c. \$10.50
- d. \$15.00

Part II

Show all the details when answering these questions.

1. Estimate

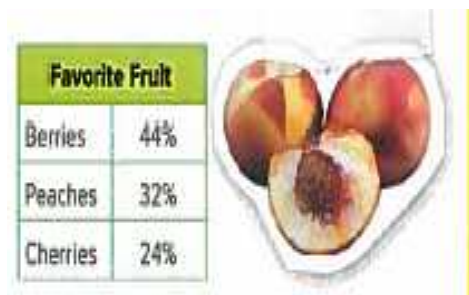
- a. 8% of 40
- b. 24% of 62
- c. 0.5% of 600

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2. Tiffany answered 90% of the questions on her math test correctly. There were 50 questions on the test. How many questions did Tiffany answer correctly?

3.250 people were asked to name their favorite fruit.

- a. Of those surveyed, how many people prefer peaches?
- b. Which type of fruit did more than 100 people prefer?



- 4. What is the simple interest paid to the nearest cent for each principal, interest rate, and time?**
- a. \$1,000, 5%, 2 years**

 - b. \$850, 4%, 6 months**
- 5. Mr. Martin bought a microwave that was originally priced at \$225. He received a 30% discount. What is the sale price of the microwave?**

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- 6. Khalifa bought a pair of jeans for \$54. The next week he noticed that the price for the same pair of jeans was now \$74. Find the percent of change. State whether the percent of change is an increase or decrease.**

Part I

Circle the letter corresponding to the correct answer.

1. What is the value of $|-9|$?
A. 18 B. 9 C. 0 D. -9
2. What is the value of $|7| + |-3|$?
A. 10 B. 4 C. -4 D. -10
3. Identify the expression that is not equal to the other three.
A. $15 - |-5|$ B. $|-4| + 6$ C. $-|7+3|$ D. $|-10|$
4. Find $-12 - (-3)$.
A. -9 B. -15 C. 9 D. 15
5. Find $-3 - 8$.
A. 11 B. 5 C. -11 D. -5
6. What value of s makes $-18 - (-5) = s$ a true sentence?
A. 23 B. 13 C. -13 D. -23
7. $(-3)^2$
A. -9 B. -6 C. -1 D. 9
8. Find the value of $8 + 12 \div 4 + 6 \times 1 + 2$.
A. 19 B. 23 C. 13 D. 4
9. Sara has \$32 in her purse. She pays \$15 for a CD. Which expression represents this situation?
A. $32 + 15$ B. $-32 + 15$ C. $-32 + (-15)$ D. $32 + (-15)$

10. A turtle dives towards deeper water at a rate of 8 inches per second. It continues for a total of 16 seconds. Which expression represents this situation?

- A. $16(-8)$ B. $-16(-8)$ C. $16 \div 8$ D. $16 \div (-8)$

11. A submarine dives 10 feet per minute for 12 minutes. Which expression represents this situation?

- A. $12(10)$ B. $12(-10)$ C. $12 \div 10$ D. $12 \div (-10)$

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Part II

Show all the details when answering these questions.

1. Write an integer for each situation.

- a. 15°F below 0 _____
- b. a deposit of AED 250 _____
- c. a loss of \$20 _____
- d. a bank withdrawal of AED 50 _____
- e. a profit of AED 250 _____

2. Evaluate each expression.

a. $|-3|$

b. $|9|$

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c. $|13| + |-2|$

d. $|12| - |-8|$

e. $|-9| - |-5|$

f. $|8 - 12|$

g. $|-27| - 5$

3. Evaluate each expression if $f = -4$, $g = 2$, and $h = 7$.

a. $-h - (-3)$

b. $h - f$

c. $-8 - (-g)$

d. $-gh^2$

4. Evaluate each expression if $a = 4$, $b = 7$, and $c = -5$.

a. $b - (-4)$

b. ac

c. $a - b$

d. $-3c^2$

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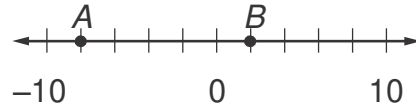
e. $-5c + b$

f. $ac \div (-2)$

g. $|f - h|$

h. $\frac{-b+c}{4}$

5. Which integers represent A and B on the number line?



6. Graph each set of integers, fractions and mixed numbers on the number line:

$$\left\{ \frac{3}{8}, -1\frac{2}{8}, \frac{-5}{8} \right\}$$



7. Add or Subtract

a. $12 + (-9)$

b. $-6 + (-9)$

c. $-29 - 31$

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

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8. Multiply

a. $6(-8)$

b. $-3(-7)(-9)$

c. $(-4)^3$

9.Divide

a. $42 \div (-7)$

b. $-24 \div (-6)$

c. $\frac{-56}{7}$

d. $\frac{-33}{-3}$

10. Write an expression to describe each situation. Then evaluate it.

- a. Khalifa receives AED 200 for his birthday. Then he spends AED 50 at the movies.

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- b. A window cleaner rises 36 feet up the side of a building, then descends 17 feet. What is his final position?
- c. The sea surface temperature range from -2°C to 31°C . Find the difference between the maximum and minimum temperatures.

- d. The highest point in a state park is 145 feet above sea level. The lowest point is 28 feet below sea level. What is the difference in elevations?
- e. The lowest temperature on Mars can reach -140°C while the highest temperature can be 20°C . What is the difference between the highest and lowest temperatures on Mars?
- f. Hamad burns 650 Calories when he runs for 1 hour. Suppose he runs 5 hours in one week. How many Calories does Hamad burn in one week?

Part I

Circle the letter corresponding to the correct answer.

1. What is $-1\frac{8}{9}$ as a decimal?

- a. $0.1\bar{8}$ b. -1.8 c. $-1.\bar{8}$ d. 18.9

2. What is 0.82 as a fraction in simplest form?

- a. $\frac{41}{50}$ b. $\frac{8}{10}$ c. $\frac{12}{25}$ d. $\frac{2}{5}$

3. What is the LCD of $\frac{11}{12}$ and $\frac{1}{8}$?

- a. 96 b. 88 c. 24 d. 12

4. Which symbol makes $3\frac{13}{28} \bullet 3\frac{17}{30}$ a true sentence?

- a. $>$ b. $<$ c. $=$ d. \times

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5. Which symbol makes $-\frac{7}{12} \bullet -\frac{5}{9}$ a true sentence?

- a. $>$ b. $<$ c. $=$ d. \div

6. $\frac{1}{6} + \left(-\frac{7}{9}\right)$

- a. $-\frac{7}{54}$ b. $\frac{8}{15}$ c. $-\frac{11}{18}$ d. $1\frac{1}{8}$

7. $-\frac{11}{15} + \left(-\frac{2}{15}\right)$

- a. $-\frac{9}{15}$ b. $-\frac{13}{15}$ c. $\frac{13}{15}$ d. $3\frac{1}{3}$

8. $11\frac{5}{7} + 8\frac{1}{7}$

- a. $18\frac{6}{7}$ b. $19\frac{6}{7}$ c. 20 d. $20\frac{1}{7}$

9. $\frac{3}{12} \times \frac{4}{21}$

a. $\frac{7}{12}$

b. $\frac{1}{3}$

c. $\frac{12}{252}$

d. $\frac{1}{21}$

10. $3\frac{5}{9} - 2\frac{1}{3}$

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

b. $1\frac{4}{27}$

c. $1\frac{2}{9}$

d. $1\frac{2}{3}$

11. $\frac{5}{6} \div 2\frac{1}{6}$

a. $\frac{5}{13}$

b. $\frac{5}{12}$

c. $1\frac{29}{36}$

d. $2\frac{3}{13}$

12. $2\frac{5}{6} \times \frac{1}{3}$

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a. $3\frac{1}{6}$

b. $1\frac{8}{9}$

c. $\frac{17}{9}$

d. $\frac{17}{18}$

13. $4\frac{1}{4} \div 2\frac{1}{2}$

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

b. $1\frac{7}{10}$

c. $1\frac{3}{4}$

d. $6\frac{3}{4}$

Show all the details when answering these questions.

1. Write each fraction or mixed number as a decimal. Use bar notation if the decimal is a repeating decimal.

a. $2\frac{5}{8}$

b. $\frac{7}{9}$

c. $\frac{3}{4}$

2. Replace each \bullet with $<$, $>$, or $=$ to make a true sentence.

a. $\frac{24}{30} \bullet \frac{45}{50}$ almanahj.com/ae

b. $\frac{6}{17} \bullet \frac{18}{51}$

c. $0.875 \bullet -2\frac{7}{8}$

d. $-0.6 \bullet -\frac{3}{4}$

e. $-7\frac{5}{8} \bullet -7\frac{1}{8}$

3. Add or subtract. Write in simplest form.

a. $\frac{5}{7} + \frac{3}{7}$

b. $\frac{7}{12} + \frac{3}{4}$

c. $\frac{-3}{5} - \frac{1}{5}$

d. $\frac{5}{8} - \frac{3}{16}$

4. Order each set of numbers from least to greatest.

a. $\{-0.23, -19\%, -\frac{1}{5}\}$

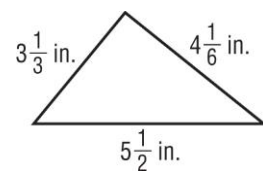
b. $\{34\%, \pi, 3.4, 3\frac{1}{7}\}$

c. $\{7.49, 7\frac{49}{50}, 7.5\%\}$

5. Hind made six batches of cookies. Her friends asked her to make an extra batch.
She used $17\frac{1}{4}$ cups of sugar and needs another $\frac{7}{8}$ cups for the extra batch.
How many cups of sugar will Hind use altogether?
6. Omar and his friends ate $\frac{5}{8}$ of a pie. If the pie was cut into eight pieces, how much pie is left over?
7. Mariam spent $3\frac{1}{4}$ hours on homework yesterday while Sara spent $2\frac{5}{6}$ hours on homework. How much more time did Mariam spend on homework than Sara?
8. The length of Alia's hair was $9\frac{3}{4}$ inches. After her haircut, the length was $6\frac{1}{2}$ inches. How many inches did she have cut?
9. A recipe calls for $\frac{1}{8}$ teaspoon of vanilla extract. If the recipe is doubled, how much vanilla extract is needed?
10. Ayana bought a container of peanuts. She gave $\frac{1}{4}$ of it to one sister, $\frac{1}{3}$ to another sister, and she kept the rest for herself. What fraction did she keep?
11. Usually Clarissa jogs $2\frac{3}{5}$ miles a day. Today she jogged half her usual distance. How far did she jog?

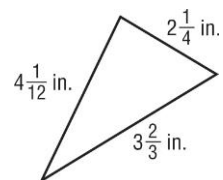
12. Find the area of a rectangle with a length of 5 inches and a width of $3\frac{5}{6}$ inches.

13. Find the perimeter of the figure.



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14. Find the perimeter of the figure.



15. Complete. Round to the nearest hundredth if necessary.

a. $927.5 \text{ g} \approx$ _____ lb

b. $18 \text{ qt} \approx$ _____ mL

c. $47 \text{ kg} \approx$ _____ lb

d. $78 \text{ ft} \approx$ _____ m

e. $1.2 \text{ lb} \approx$ _____ kg

f. $43 \text{ km} \approx$ _____ mi

g. $100 \text{ mL} \approx$ _____ c

h. $4 \text{ cm} \approx$ _____ in.

i. $3 \text{ T} \approx$ _____ kg

j. $8 \text{ L} \approx$ _____ gal

All Best Wishes Dear Students  ... !

Subject Teacher: Ms. Suha Abdelhadi