



## Entering 5<sup>th</sup> Grade Math

### Summer Review Packet – 2018

DUE THE FIRST DAY OF CLASS

In preparation for the Fall Semester, this assignment is required to prepare you for your 5<sup>th</sup> Grade Mathematics Course.

#### About 5<sup>th</sup> Grade Mathematics:

5<sup>th</sup> grade math teaches students the relationship between fractions and decimals and helps them improve their ability to work with each using different operations. Students will also solidify their multiplication and division skills.

Skills gained in 5<sup>th</sup> grade math provide students with a foundation for subsequent math courses.

#### Materials/Supplies:

- Pencils
- Loose leaf paper
- Two pocket folder

#### Expectations of the Summer Packet:

The problems in this packet are designed to help you review topics that are important to your success in 5<sup>th</sup> grade math. **All work must be shown for each problem.** The problems should be done correctly, not just attempted.

**The packet is due the first day of school.** During the first week(s) of school, concepts in the packet will be reviewed.

***All work should be completed and ready to turn in on the first day of classes.***

Notes: The internet is a great resource... use it!

Some helpful sites:

[www.coolmath.com](http://www.coolmath.com)

[www.khanacademy.com](http://www.khanacademy.com)

[www.youtube.com](http://www.youtube.com)

**Current students:** For assistance in completing this packet, the electronic subscription associated with last year's math textbook is still available for your use until Aug 31<sup>st</sup>.

Enjoy your summer!

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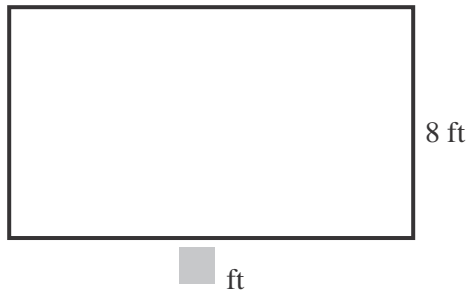
# Benchmark Test 4 *(Chapters 1-14)*

Read each question. Fill-in the correct answer.

1. An online music store had an average of 1,462 downloads each hour for 6 hours. How many downloads did the music store have in all?

- A 8,772 downloads
- B 8,762 downloads
- C 8,472 downloads
- D 6,762 downloads

2. The fabric wall hanging has an area of 112 square feet. The width is 8 feet. What is the length?



- E 14 feet
- G 28 feet
- H 30 feet
- I 48 feet

3. Which is 8,903 written in expanded form?

- A  $800 + 90 + 3$
- B  $800 + 90 + 10 + 3$
- C  $8,000 + 90 + 3$
- D  $8,000 + 900 + 3$

4. Pia needs  $\frac{3}{4}$  yard of fabric to cover a bench. Which amount of fabric is greater than  $\frac{3}{4}$  yard?

- E  $\frac{7}{12}$  yard
- G  $\frac{2}{3}$  yard
- H  $\frac{1}{2}$  yard
- I  $\frac{5}{6}$  yard

5. An amusement park had 8,439 visitors on Friday. It had 9,904 visitors on Saturday. Rounding to the nearest thousand, about how many visitors did the park have altogether?

- A 16,000 visitors
- B 17,000 visitors
- C 18,000 visitors
- D 20,000 visitors

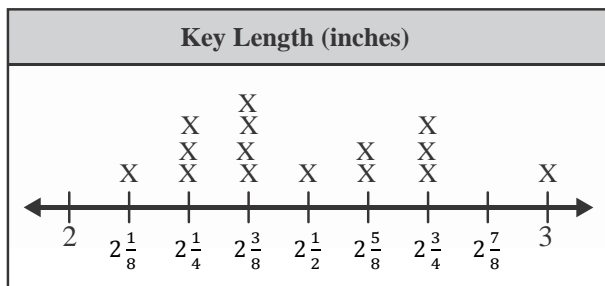
# Benchmark Test 4 *(continued)*

6. What is the value of the expression?

$$(21 - 3) + (5 \times 2)$$

- (F) 180
- (G) 46
- (H) 30
- (I) 28

7. Ginna's class measured the lengths of keys. Ginna displayed the data in a line plot.



What is the difference in length between the shortest key and the longest key?

- (A)  $1\frac{1}{8}$  inches
- (B)  $\frac{7}{8}$  inch
- (C)  $\frac{3}{4}$  inch
- (D)  $\frac{5}{8}$  inch

8. There are two 2-liter bottles of punch, and three 500-milliliter bottles of orange drink at the school picnic. How many milliliters of drinks are there in all?

- (F) 5,500 milliliters
- (G) 4,500 milliliters
- (H) 4,100 milliliters
- (I) 2,500 milliliters

9. What is the place value of the digit 2 in 126,493?

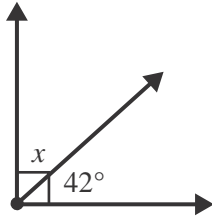
- (A) 200
- (B) 2,000
- (C) 20,000
- (D) 200,000

10. Samson Park issued 18,632 hiking permits this year. It issued 18,777 permits last year. How many permits did it issue in all?

- (F) 26,309 permits
- (G) 37,409 permits
- (H) 36,409 permits
- (I) 36,309 permits

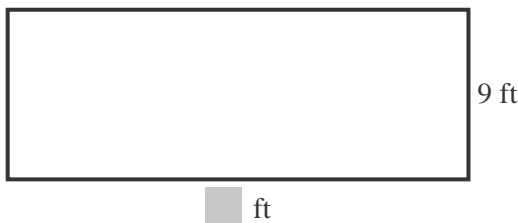
## Benchmark Test 4 *(continued)*

11. Look at the diagram. What is the measure of angle  $x$ ?



- (A)  $42^\circ$
- (B)  $48^\circ$
- (C)  $90^\circ$
- (D)  $132^\circ$

12. The area of a tablecloth is 108 square feet. The width is 9 feet. What is the perimeter of the tablecloth?



- (F) 12 feet
- (G) 21 feet
- (H) 42 feet
- (I) 81 feet

13. There are 100 tissues in a box. How many tissues are in 6 boxes?

- (A) 60 tissues
- (B) 106 tissues
- (C) 600 tissues
- (D) 6,000 tissues

14. Sara is practicing words for a spelling bee. She practiced 5 words on Monday. She plans to practice 2 times as many words each day as the previous day. How many total words will she practice each day for the next four days?

- (F) 10, 15, 20, 25
- (G) 10, 20, 30, 40
- (H) 10, 20, 40, 60
- (I) 10, 20, 40, 80

15. Mrs. Hammond ordered an equal number of T-shirts in 3 different sizes. If she ordered 600 T-shirts, how many of each size did she order?

- (A) 20 T-shirts
- (B) 200 T-shirts
- (C) 1,800 T-shirts
- (D) 2,000 T-shirts

**Benchmark Test 4** (continued)

16. Pedro is making a fruit salad. He bought 3 pounds of bananas, 2 pounds of apples, and 1 pound of oranges. How many ounces of fruit does he have?
- Ⓕ 6 ounces  
Ⓖ 22 ounces  
Ⓗ 72 ounces  
Ⓘ 96 ounces
- 
17. Lee Ann rode her skateboard  $\frac{4}{10}$  mile on Monday. She rode  $\frac{48}{100}$  mile on Tuesday. How far did Lee Ann ride her skateboard during the two days?
- Ⓐ  $\frac{8}{100}$  mile  
Ⓑ  $\frac{44}{100}$  mile  
Ⓒ  $\frac{52}{100}$  mile  
Ⓓ  $\frac{88}{100}$  mile
- 
18. A store ordered 57 boxes of puzzles for a tent sale. There are 18 puzzles in each box. About how many puzzles did the store order in all?
- Ⓕ 120 puzzles  
Ⓖ 600 puzzles  
Ⓗ 1,000 puzzles  
Ⓘ 1,200 puzzles
- 
19. Davi has 5 times as many hats as Kwan. Davi has 20 hats. Which can be used to find the number of hats Kwan has?
- Ⓐ  $5 + h = 20; h = 15$   
Ⓑ  $5 \times h = 20; h = 4$   
Ⓒ  $5 \times 20 = h; h = 100$   
Ⓓ  $5 + 20 = h; h = 25$
- 
20. Mr. Tate equally divided 64 screws into 4 drawers of a tool chest. How many screws are in each drawer?
- Ⓕ 13 screws  
Ⓖ 14 screws  
Ⓗ 16 screws  
Ⓘ 18 screws

**Benchmark Test 4** (continued)

21. Pet Care gave 560,423 bowls of food to animal shelters this year. This was 214,975 more bowls than the previous year. How many total bowls of food did Pet Care give to animal shelters?

- (A) 345,448 bowls
- (B) 775,398 bowls
- (C) 805,861 bowls
- (D) 905,871 bowls

22. In a survey on the heaviest zoo animal,  $\frac{2}{8}$  of Caesar's class voted for rhinoceros and  $\frac{5}{8}$  voted for elephant. What fraction of the class voted for either a rhinoceros or an elephant as the heaviest animal?

- (F)  $\frac{1}{8}$
- (G)  $\frac{3}{8}$
- (H)  $\frac{7}{16}$
- (I)  $\frac{7}{8}$

23. Which rule describes the pattern?

45, 47, 46, 48, 47, 49, 48

- (A) add 2
- (B) subtract 1
- (C) add 2, then subtract 1
- (D) subtract 1, then add 2

24. Alyssa wants to add trim around a toss pillow. The perimeter of the pillow is 1.5 meters. How many centimeters of trim does Alyssa need?

- (F) 1,500 centimeters
- (G) 1,050 centimeters
- (H) 150 centimeters
- (I) 15 centimeters





25. Which **best** describes the figure?



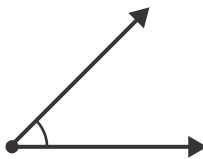
- (A) trapezoid
- (B) rhombus
- (C) square
- (D) rectangle

## Benchmark Test 4 *(continued)*

26. Which of the following represents a ray?

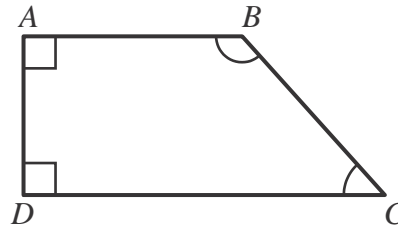
- (F) 
- (G) 
- (H) 
- (I) 

27. What is the measure of the angle in degrees?



- (A)  $45^\circ$
- (B)  $30^\circ$
- (C)  $135^\circ$
- (D)  $90^\circ$

28. Which angle in the figure is obtuse?



- (F) Angle A
- (G) Angle B
- (H) Angle C
- (I) Angle D

29. A bag of potatoes has a mass of 4 kilograms. What is the mass in grams?

- (A) 4 grams
- (B) 40 grams
- (C) 400 grams
- (D) 4,000 grams

30. It takes Mars 687 days to orbit the Sun. How long does it take Mars to orbit the Sun 9 times?

- (F) 5,423 days
- (G) 5,983 days
- (H) 6,073 days
- (I) 6,183 days

GO ON ►

## Benchmark Test 4 *(continued)*

31. Mr. Cho used 4 square blocks to make a garden walkway. Each square block has a side length of 25 inches. What is the perimeter of the walkway?

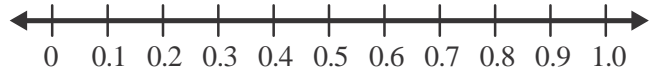


- (A) 125 inches
- (B) 250 inches
- (C) 400 inches
- (D) 450 inches

32. Joaquin played basketball with his friends from 1:10 to 3:35. He arrived home 20 minutes later. How many minutes passed from the time Joaquin started playing basketball until the time he arrived at home?

- (F) 165 minutes
- (G) 175 minutes
- (H) 185 minutes
- (I) 195 minutes

33. A desert centipede can be as short as 0.1 meter. What is the length of 4 desert centipedes?



- (A) 0.04 meter
- (B) 0.2 meter
- (C) 0.3 meter
- (D) 0.4 meter

34. Lexi sent an average of 17 text messages each day for 68 days. How many text messages did Lexi send altogether?

- (F) 746 text messages
- (G) 1,106 text messages
- (H) 1,146 text messages
- (I) 1,156 text messages

35. Which statement is true?

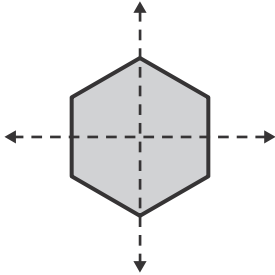
- (A)  $143,670 > 143,681$
- (B)  $246,029 < 245,984$
- (C)  $304,789 > 304,799$
- (D)  $479,199 < 479,201$



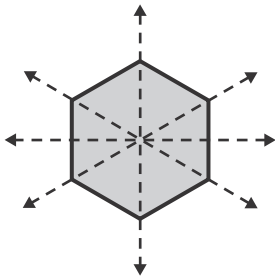
## Benchmark Test 4 *(continued)*

36. Which shows all of the lines of symmetry for a hexagon?

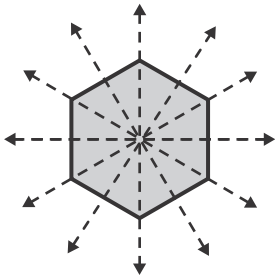
(F)



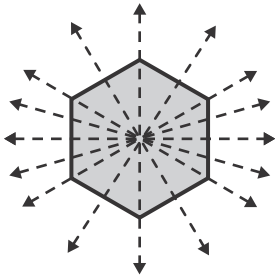
(G)



(H)



(I)



37. Jade learned the meaning of 3 new words each week for 41 weeks. How many new words did Jade learn altogether?

- (A) 132 words
- (B) 123 words
- (C) 44 words
- (D) 38 words

38. A school office is dividing 336 boxes of chalk equally among 8 classrooms. How many boxes of chalk will each classroom get?

- (F) 40 boxes
- (G) 42 boxes
- (H) 43 boxes
- (I) 45 boxes

39. Diego is canning 3 gallons of tomato sauce in quart-sized containers. How many containers does he need?

- (A) 6 containers
- (B) 12 containers
- (C) 24 containers
- (D) 36 containers

40. A surf shop earned \$46,998 its first year. The shop earned \$59,643 the second year. How much more did the shop earn the second year?

- (F) \$12,645
- (G) \$12,755
- (H) \$13,655
- (I) \$13,765

## Benchmark Test 4 *(continued)*

41. Makalu is listed as the fifth tallest mountain in the world. It is 27,838 feet high. What is this number written in word form?
- (A) twenty-seven, eight hundred, thirty-eight
  - (B) twenty-seven, eight thirty-eight
  - (C) twenty-seven thousand, eighty-three hundred, eight
  - (D) twenty-seven thousand, eight hundred, thirty-eight

42. The equation shown in the table can be used to find the output when the input is 2, 4, and 6.

$6 + (8 - x) \div 2 = y$	
Input ( $x$ )	Output ( $y$ )
2	
4	
6	

Which numbers complete the table?

- (F) 6, 5, 4
- (G) 8, 9, 10
- (H) 9, 8, 7
- (I) 14, 12, 10

43. In a can of nuts,  $\frac{3}{8}$  pound is cashews. How many pounds of cashews are in 12 cans?
- (A)  $\frac{1}{2}$  pound
  - (B)  $1\frac{1}{2}$  pounds
  - (C)  $4\frac{1}{2}$  pounds
  - (D)  $4\frac{3}{4}$  pounds

44. At a botanical garden, there are 1,414 rose bushes divided equally into 7 different rose gardens. How many rose bushes are in each garden?
- (F) 22 rose bushes
  - (G) 202 rose bushes
  - (H) 220 rose bushes
  - (I) 222 rose bushes

45. A Komodo dragon can be as long as 10 feet. What is the length in inches?
- (A) 120 inches
  - (B) 100 inches
  - (C) 30 inches
  - (D) 22 inches



## 5 Science Graph

Please complete on a separate sheet of paper.

Scientific observations need to be recorded in an organized way so the experimenter can analyze the information. All experiments produce data, which are the facts, the figures, and other evidence gathered through observations. Making sense of the data is called data interpretation.

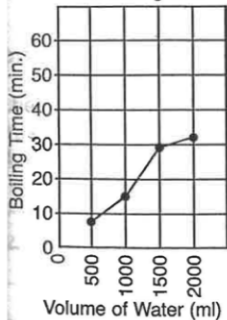
Examine each data set shown below. Then on a separate sheet of paper give a brief summary of what the experimenter can conclude from the data. If the data is in a data table, choose a graph (line, bar, or circle graph) to display the data.

1. The effect of different activities on the heart rate of students (in beats per minute)

Student	Heart Rate (at rest)	Heart Rate (walking)	Heart Rate (running)
1	72	83	102
2	81	101	119
3	74	89	112

Conclusions: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

2. The effect of the volume of water in a pot on boiling time (in minutes)  
 Effect of volume of water on boiling time



Conclusions: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



3. The effect of the distance from the hoop (in meters) on the number of baskets made

Distance from the hoop (meters)	Number of baskets made
1	12
2	10
3	9
4	5

Conclusions: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_