TEST NAME: **Fall SOY Checkpoint Grade 6 Math Content**
TEST ID: **29**
GRADE: **06 - 07**
SUBJECT: **Mathematics**
TEST CATEGORY: **Start of Year Checkpoint**

Student: _____

Class: _____

Date: _____

Instructions

The Grade 6 Math test has two subparts. Each subpart contains different types of questions. To begin the test, click the "Next" arrow button at the top.

Read the passage - 'VH984282_directions' - and answer the question below:

VH984282_directions

Subpart 1 of this test contains different types of assessment questions in Grade 6 Math. You may make notes on scratch paper or use the Notepad tool within the online test. Make sure you answer all the questions. You MAY NOT use a calculator in Subpart 1 of this test.

1. Which expression is equivalent to the sum of 2 times y and 15?

   A. $2y \cdot 15$

   B. $2y + 15$

   C. $2 + 15y$

   D. $2 + y + 15$

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2. Maria buys x books. Each book costs $\$5$.
   Which expression represents the amount of money Maria spends to buy x books?

   A. $5x$

   B. $5 + x$

   C. $\dfrac{5}{x}$

   D. $\dfrac{x}{5}$

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3. A truck travels 90 miles on 6 gallons of gas.
   What is the rate the truck travels in miles per gallon?

   A. 6

   B. 15

   C. 90

   D. 540

4. Casey earns money, m, for doing chores. He puts that money with $\$5.50$ he has in his pocket. Casey now has a total of $\$35.50$.
   Which equation represents his total amount of money?

   A. $m + 5.50 = 35.50$

   B. $5.50 + 35.50 = m$

   C. $35.50 + m = 5.50$

   D. $5.50m = 35.50$

5. Drew has a job making pizzas. He can make 1 pizza in 7.5 minutes.
   Which equation can be used to find m, the number of minutes it takes Drew to make p pizzas?

   A. $p = \dfrac{7.5}{m}$

   B. $m = 7.5p$

   C. $m = \dfrac{p}{7.5}$

   D. $p = 7.5m$

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6. An equation is given.

$$\frac{1}{4} \div x = \frac{2}{12}$$

What value of x makes the equation true?

A. $\frac{3}{2}$

B. $\frac{2}{3}$

C. $\frac{1}{8}$

D. $\frac{1}{12}$

7. Which expressions are equal to 16 when $x = 4?$

Select the **three** correct answers.

Pick up to 5 answers.

A. $2x \div 0.5$

B. $4x \cdot x - 3$

C. $\frac{x^3}{4}$

D. $5x - 16 \div x$

E. $\frac{1}{2}x + 8$

8. It takes Alia 7 minutes to run one mile.

Which equation can be used to show the relationship between Alia's number of miles, m, and the total time of her run, $t?$

A. $7t = m$

B. $7m = t$

C. $7 + m = t$

D. $m - 7 = t$

9. Three children divide $\frac{2}{3}$ of a pizza equally. Which fraction represents the part of the whole pizza each child receives?

A. $\frac{1}{2}$

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

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

D. $\frac{6}{3}$

10. Abe earns $\$30.00$ for raking his neighbor's leaves. He bought lunch and has $\$22.75$ left. The equation $x + 22.75 = 30.00$ can be used to determine x, the amount of money, in dollars, Abe spent for lunch.
Which value of x represents the amount of money, in dollars, Abe spent on lunch?

A. $x = 7.25$

B. $x = 7.75$

C. $x = 8.25$

D. $x = 8.75$

11. Julie paid $18 for 6 notebooks.
How much did each notebook cost?

A. $0.33

B. $3.00

C. $6.00

D. $12.00

12. What is the value of the expression $2 + x^2 \cdot 5$ when $x = 3$?

   A. 125

   B. 55

   C. 47

   D. 32

Read the passage - 'VH986378_directions' - and answer the question below:

VH986378_directions

Subpart 2 of this test contains different types of assessment questions in Grade 6 Math. You may make notes on scratch paper or use the Notepad tool within the online test. Make sure you answer all the questions. You MAY use a calculator in Subpart 2 of this test.

13. A department store sold 20% of the dresses they had in stock. After the sale they had 60 dresses left.
   What was the original number of dresses before the sale?

   A. 48

   B. 72

   C. 75

   D. 80

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14. The graph shows the relationship between the time, x, and the distance, y, of a running grizzly bear.

Running Grizzly Bear

Which equation shows the relationship between x and y that is represented by the graph?

A. $y = 50 \div x$

B. $y = 50x$

C. $x + 50 = y$

D. $51 - y = x$

15. What is the unit price of a granola bar if 8 granola bars cost $4.16?

A. $0.42

B. $0.52

C. $1.92

D. $5.20

16. Benny uses $\frac{2}{5}$ gallon of gas to mow his entire lawn one time.

What is the maximum number of times Benny can mow his entire lawn with $3\frac{1}{2}$ gallons of gas?

A. 6

B. 7

C. 8

D. 9

17. What percent of 400 is 75?

A. 5.33%

B. 18.75%

C. 25%

D. 53%

18. The area of Natalie's new bedroom rug is $3\frac{3}{4}$ square feet. The width of the rug is $2\frac{1}{2}$ feet. What is the length of Natalie's rug?
Select **all** correct answers.

Pick up to 5 answers.

A. $\frac{2}{3}$

B. $\frac{3}{2}$

C. $1\frac{1}{2}$

D. $2\frac{1}{2}$

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

19. Of the 220 tickets available for a school play, 45% have been sold.
    What is the number of tickets that have sold?

    A. 99

    B. 175

    C. 489

    D. 990

20. Which expression is equivalent to $3y + 6?$ Select **two** correct answers.

    Pick up to 2 answers.

    A. $y^2 + 2y + 6$

    B. $3(y + 6)$

    C. $5y + 1 - 2y + 5$

    D. $(y + 3) + 6$

    E. $3(y + 2)$

21. Marcus is making a ratio table to use when mixing pints of paint colors. He will use this table to mix an identical color.

Color A (pints)	Color B (pints)
5	8
10	?
15	24
20	32

    What is the missing value in the ratio table?

    A. 13

    B. 16

    C. 18

    D. 19

22. Select **all** of the values of x that make the inequality $4x \geq 8$ true.

Pick up to 5 answers.

A. 0

B. 1

C. 2

D. 3

E. 4

23. One type of soft drink contains 9.3 teaspoons of sugar per can.

Which equation can be used to show the relationship between the number of cans of soft drink, c, and the total number of teaspoons of sugar, s?

A. $9.3s = c$

B. $9.3c = s$

C. $s + 9.3 = c$

D. $\dfrac{c}{9.3} = s$

24. There are 15 boys and 10 girls in Ms. Rogers' class. What is the ratio of boys to girls?

A. 2:3

B. 2:5

C. 3:2

D. 3:5

25. Suzy is taking a class at the community college. The class will meet for a total of $18\frac{3}{4}$ hours. The class will meet once a week for $1\frac{1}{4}$ hours. For how many weeks will the class meet?

A. 23

B. 20

C. 18

D. 15