6th Grade Common Core Practice Test
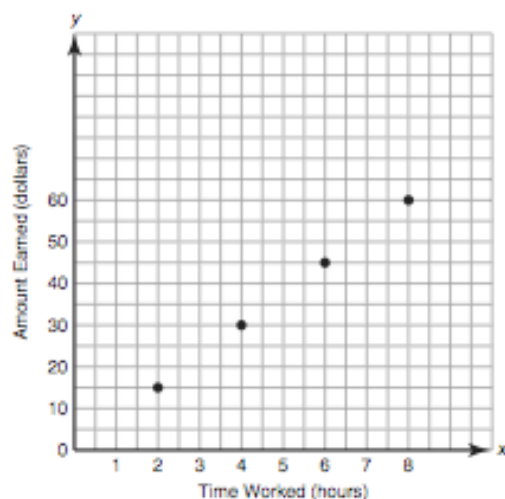
1 Krissa works as a cashier in an office supply store. The graph shows the ratio *amount earned : time worked*.

How much will Krissa earn if she works for 7 hours?

a. $37.50

b. $42.00

c. $56.00

d. $52.50

2 The sixth-grade class was asked the question, "What do you spend the most time on each weeknight?" The results are shown in the table. What percent of the sixth-grade class said that they spend the most time communicating with friends?

Most Time Spent On...	Number of Students
Homework	56
School Events	32
Communicating with Friends	81
Playing Games	39
Watching TV	62

a. 30%

b. 43%

c. 70%

d. 81%

3 The table shows the weight of a particular item. Which phrase describes how the weight is related to the number of items?

Number of Items	Weight (pounds)
1	3
2	6
3	9
4	12

a. The weight is 3 more than the number of items.

b. The weight is 3 times the number of items.

c. The weight is 3 divided by the number of items.

d. The weight is 3 less than the number of items.

4 Haddon's favorite clothing store is having a sale. Shirts are 25% off and pants are 15% off. Haddon bought 2 shirts that originally were priced at $15.98, and 3 pairs of pants that were originally priced at $25.59. How much did Haddon pay for his purchases after the discount?

a. $19.51

b. $33.74

c. $67.47

d. $89.22

5 Maria is using a double number line to determine the amount of flour she will need to make a batch of sugar cookies. If she wants to make a batch of 48 cookies, how much flour will she need?

a. 5 cups

b. $7\frac{1}{2}$ cups

c. 10 cups

d. $12\frac{1}{2}$

6 Ling earns $108 for working 9 hours. Rachel earns $77 for working 7 hours. Ruben earns $92 for working 8 hours. Patrick earns $115 for working 10 hours. Who has the highest hourly wage?

a. Ling

b. Rachel

c. Ruben

d. Patrick

7 The table represents the ratio of tulips to daffodils in a garden.

Tulips	17	?	51	?
Daffodils	12	48	?	60

How many tulips will there be if the garden has 60 daffodils?

a. 36 tulips

b. 60 tulips

c. 68 tulips

d. 85 tulips

8 Of the 45 members of the Henley Middle School Drama Club, 28 are girls. Which is a part-to-part ratio that describes this situation?

a. $\dfrac{28 \text{ girls}}{45 \text{ members}}$

b. $\dfrac{17 \text{ boys}}{45 \text{ members}}$

c. $\dfrac{45 \text{ members}}{28 \text{ girls}}$

d. $\dfrac{17 \text{ boys}}{28 \text{ girls}}$

9 Kate has 48 softballs. She wants to divide them evenly among *b* softball bags. Which expression represents how many softballs she should put into each bag?

a. $\dfrac{48}{b}$

b. $48b$

c. $\dfrac{b}{48}$

d. $48 - b$

10 In an online survey, 78% of teens between the ages of 13 and 18 said they own a cell phone. About how many teens own cell phones in a class of 250 students?

a. 31

b. 156

c. 178

d. 195

11 Which word expression represents the algebraic expression shown?

$12 - 3x$

a. twelve less than 3 times *x*

b. three *x* minus 12

c. three times *x* less than 12

d. twelve minus 3 plus *x*

12 A snowboard is advertised to be 60% of the original price. If the sale price is $180, what is the original price?

a. $108

b. $240

c. $288

d. $300

13 Which pair of expressions are equal?

    a. $3(x + 2) + 4x$ and $7x + 6$

    b. $2(x + 3) + 2x$ and $4x + 3$

    c. $5(x - 1) + 6$ and $5x + 5$

    d. $4 + 5(x - 2)$ and $3x + 4$

14 What are the common factors of 32 and 28?

    a. 1, 2, and 4

    b. 1, 2, 4, and 7

    c. 1, 2, 4, and 8

    d. 1, 2, 4, 7, 8, 14, 16, 28, and 32

15 Essam buys 3 apples, 5 bananas, and 7 carrots from a market. What is the ratio of bananas to carrots?

    a. 7 to 5

    b. 5 to 7

    c. 3 to 7

    d. 7 to 3

16 Simplify the algebraic expression $4(x + 1) + 7(x + 3)$.

    a. $11x + 4$

    b. $2x + 215$

    c. $11x + 25$

    d. $5x + 11$

17 How do you write the fraction $\frac{4}{5}$ as a percent?

    a. 0.45%

    b. 0.8%

    c. 45%

    d. 80%

18   Evaluate $24 \div (8 + 2^2)$.

   a. 2

   b. 3

   c. 5

   d. 7

19   Evaluate $n^2 - 6$ if $n = 7$.

   a. 1

   b. 8

   c. 8.2

   d. 43

20 . Which of the following is a multiple of 11?

   a. 16

   b. 25

   c. 33

   d. 41