America's School of Heroes
Middle School 137
109-15 98th Street, Ozone Park, N.Y. 11417
Tel: 1-718-659-0471 Fax: 1-718-659-4594
http://www.heroesofms137.org
Pamela Trincado, Principal
Assistant Principals:
Frank Bennici • Francesca Casale • Dimitra Galatsanos • Mark A. Main • Danielle Monock • Christina Reilly-Derasmo • Michael Troy

6th Grade Math – Spring Break Packet

Name:_____ Class:_____

1) ***6.RP.3***

In Ms. Perron's class, 75% of the students are boys. There are 18 boys in the class. What is the total number of students in Ms. Perron's class?

A 6

B 14

C 24

D 57

---

2) ***6.EE.9***

The Frenchtown Roller Rink charges a $5 entrance fee and an hourly rate for roller skating. The total cost for roller skating depends on the number of hours a person skates. The table below represents the total cost of skating for different numbers of hours.

ROLLER SKATING COST

Number of Hours (h)	Total Cost in Dollars (c)
0	5
1	8
2	11
3	14
4	17

Which equation represents the relationship between the cost, c, and the number of hours, h?

A $c = 8h$

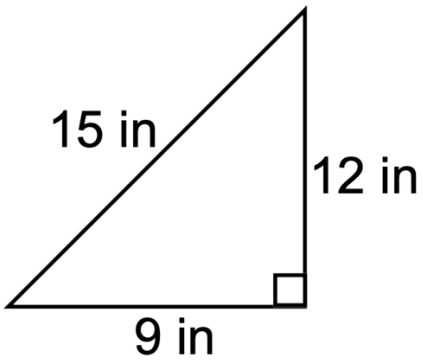
B $c = 5h + 3$

C $c = 2h + 7$

D $c = 3h + 5$

3) *6.G.1*

A right triangle is shown below.



What is the area, in square inches, of the triangle?

A 54

B 90

C 108

D 135

---

4) *6.NS.1*

Omar has $2\frac{3}{4}$ cups of dough to make dumplings. If he uses $\frac{3}{16}$ cup of dough for each dumpling, how many whole dumplings can Omar make?

A 13

B 14

C 15

D 16

---

5) *6.EE.7*

What is the solution of the equation below?

$$x + 8.63 = 11.001$$

A $x = 19.631$

B $x = 10.138$

C $x = 3.471$

D $x = 2.371$

6) *6.RP.3*

The table below shows the number of tea bags needed to make different amounts of iced tea.

Number of Tea Bags	Total Quarts of Iced Tea
8	2
16	4
24	?
36	9

What is the total number of quarts of iced tea that can be made with 24 tea bags?

A 5

B 6

C 7

D 8

---

7) *6.EE.9*

Chakan worked at the warehouse after school. He earned $9.25 per hour stacking boxes. Which equation correctly relates Chakan's total earnings, d, to the number of hours he worked, h?

A $d = 9.25h$

B $h = 9.25d$

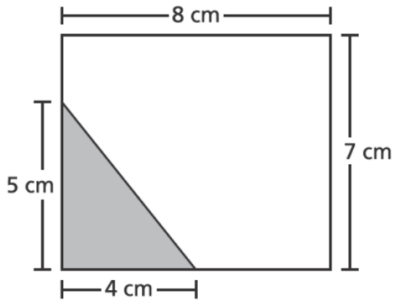
C $d = \frac{9.25}{h}$

D $h = \frac{9.25}{d}$

---

8) *6.G.1*

The figure below shows a shaded triangle within a rectangle.



What is the area, in square centimeters, of the part of the rectangle that is **not** shaded?

A 36

B 46

C 56

D 66

9) ***6.NS.4***

What is the least common multiple of 9 and 12 ?

A 3

B 36

C 72

D 108

---

10) ***6.EE.7***

Which expression is equivalent to $5(4x + 3) - 2x$?

A $18x + 15$

B $18x + 3$

C $7x + 8$

D $2x + 8$

---

11) ***6.RP.2***

Ms. Wilson is buying packages of pencils. Each package costs $11.52 and contains 96 pencils. What is the unit price of a pencil?

A $0.12

B $0.96

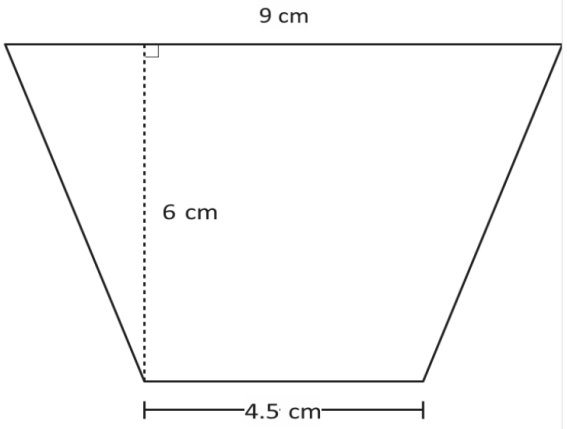
C $1.20

D $1.92

---

12) ***6.G.1***

What is the area of the isosceles trapezoid shown?



A 27 cm^2

B 33.8 cm^2

C 40.5 cm^2

D 54 cm^2

13) ***6.NS.4***

At a bus station, buses begin their routes at 6:00 a.m. The schedule for two of the buses is based on the time intervals listed below.

- Bus A has a long route and leaves the station every 75 minutes.
- Bus B has a short route and leaves the station every 15 minutes.

What is the next time Bus A and Bus B will leave the bus station at the same time?

A 7:00 a.m.

B 7:15 a.m.

C 7:30 a.m.

D 8:30 a.m.

---

14) ***6.EE.7***

Paul bought a package of 6 spiral notebooks for a total cost of $13.50. Which equation represents p, the cost, in dollars, of each notebook?

A $p = 13.50 - 6$

B $p = 13.50 \times 6$

C $p = 13.50 + 6$

D $p = 13.50 \div 6$

---

15) ***6.RP.2***

Hannah buys oranges and apples from the grocery store. She pays $6.25 for 5 pounds of oranges and $6.90 for 6 pounds of apples. Which statement about the fruit is true?

A Apples have the greater unit price at $1.25.

B Apples have the greater unit price at $1.15.

C Oranges have the greater unit price at $1.25.

D Oranges have the greater unit price at $1.15.

---

16) ***6.EE.9***

Jake takes guitar lessons that cost $\$120.00$ per month. Which equation can be used to determine the total number of dollars, d, that Jake pays for lessons for any number of months, m?

A $d = 120 \times m$

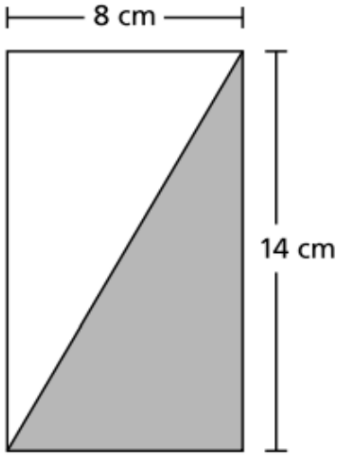
B $m = 120 \times d$

C $d = 120 + m$

D $m = 120 + d$

17) ***6.G.1***

A partially shaded rectangle is shown below.



What is the area, in square centimeters, of the shaded part of the rectangle?

A 28

B 44

C 56

D 112

---

18) ***6.EE.7***

What is the solution to the equation below?

$$4w = \frac{2}{3}$$

A $w = \frac{2}{12}$

B $w = \frac{2}{7}$

C $w = \frac{8}{3}$

D $w = 3\frac{1}{3}$

---

19) ***6.RP.3***

Pat bounces a basketball 25 times in 30 seconds. At that rate, approximately how many times will Pat bounce the ball in 150 seconds?

A 120

B 125

C 144

D 145

20) ***6.RP.3***

The table below shows different possibilities for the number of games a team would need to win to maintain a certain percentage of wins.

POSSIBLE BASEBALL GAMES WON

Number of Games Won	Number of Games Played
6	10
24	40
36	60
42	70

Which ratio of the number of games won to the number of games played could also be included in this table?

A 18 : 20

B 30 : 20

C 18 : 30

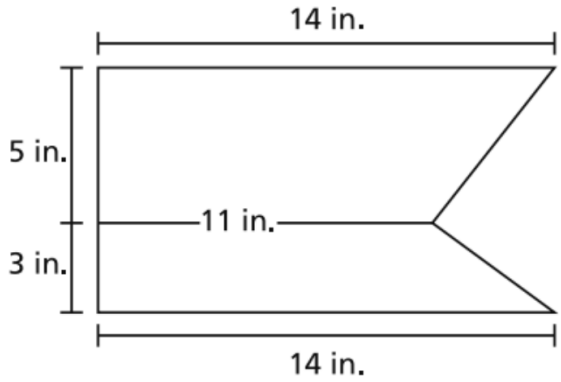
D 50 : 30

Part Two: Extended Response. Show all Work and state your answers clearly.

21) ***6.G.1***

2-point response.

David made a class banner out of a large rectangular piece of paper. He cut a triangular piece out of one side, as pictured below.



What is the area, in square inches, of the banner?

Show your work.

---

22) ***6.G.2***

2-point response.

A shipping container in the shape of a right rectangular prism has a base with an area of 36 square feet. The height of the container is $8\frac{1}{4}$ feet. What is the volume, in cubic feet, of the shipping container?

Show your work.