

8<sup>th</sup> Grade Summer Math Packet Answers

1.

- TRUE
- TRUE
- FALSE
- TRUE

2. Less than  $\frac{1}{3}$ : landing on a 1; landing on a 3; and landing on a 4  
Greater than 1: landing on a 2

3. Finds new wage rate: "Multiply \$455 by 1.20"; and "Solve for x:  $\frac{x}{455} = \frac{120}{100}$ "

Does not find new wage rate: "Divide \$455 by 0.20"; "divide \$455 by 1.20"; "Multiply \$455 by 0.20"; and "Solve for x:  $\frac{455}{x} = \frac{20}{100}$ "

4.  $w = 4v + 4 = 4(v + 2)$

5.  $-a \bullet -b = c$

$$-a \bullet b = -c \text{ OR } a \bullet -b = -c$$

$$\frac{-c}{-b} = a$$

$$\frac{c}{-b} = -a \text{ OR } \frac{-c}{b} = -a$$

6. A. Any fraction where the denominator is greater than the numerator (ex;  $\frac{1}{2}$ )

B. Any fraction where the numerator is greater than the denominator (ex:  $\frac{2}{1}$ )

7.

- $\frac{7}{8}$

And

- 4 laps completed with the first 2 sections shaded.

8. 0.6 gallon of green paint

9.  $(x - 4)$  and  $(-4 + 4x)$  and  $(-4x - 4)$

10.

- $P + 88 = 216$
- 7 boxes of nails
- 5 posts placed 8 feet apart

11.  $\frac{2}{3}$  and  $\frac{1}{2}$

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12. 7.5

13. A. 6 carrots and 4 celery sticks

B. 3:4

14. Options A, B and E

15. A 3cm by 3 cm square

16. Options A, B, and E

17. A line from 0 to 6 on the number line

18. Any correct equation such as:  $y = 9.60h$

19. 4 paint cans

20. A. Steps 1, 2, and 4

B. A point plotted at 8 on the number line

21. B