

Name: Key

Date: _____

Math 7

☺ Quiz! ☺

<p>1. A diner has four types of fish, five types of sides and two choices of drinks. How many different dinner choices are there consisting of one type of fish, one side & one drink?</p> <p>$4 \cdot 5 \cdot 2 = 40$</p> <p>A 11 B 10 C 20 D 40</p>	<p>2. Which has the greatest absolute value?</p> <p>A -3 B 6 C -10 D 8</p> <p>$10 = 10$</p>
<p>3. What is the probability of tossing heads on a penny and tossing an odd number on a number cube with faces numbered 1 - 6?</p> <p>$\frac{1}{2} \cdot \frac{3}{6} = \frac{3}{12} = \frac{1}{4}$</p> <p>A $\frac{1}{3}$ B $\frac{1}{6}$ C $\frac{1}{2}$ D $\frac{1}{4}$</p>	<p>4. Simplify the following expression:</p> <p>$x - 4y + 5x - 2y$</p> <p>A $6x + 6y$ B $6x - 6y$ C $-6x + 6y$ D $-6x - 6y$</p> <p>$6x - 6y$</p>
<p>5. If the probability that it will snow tomorrow is $\frac{4}{9}$, what is the probability that it will not snow tomorrow?</p> <p>$\frac{5}{9}$</p> <p>A 0 B $\frac{4}{9}$ C 1 D $\frac{5}{9}$</p>	<p>6. Which two angle measures are complementary? = 90</p> <p>$30 + 60 = 90^\circ$</p> <p>A 20 and 20 B 16 and 90 C 30 and 60 D 80 and 100</p>
<p>7. Which expression is equivalent to $10x - 2$?</p> <p>A $2x(5 - 1)$ B $10(x - 1)$ C $2(5x - 1)$ D $-2(5x - 1)$</p> <p>$\frac{2(10x - 2)}{5x - 1}$</p> <p>$2(5x - 1)$</p>	<p>8. Stella invests \$562 into a savings account that earns 5.5% simple interest. She plans on leaving the money in the account for 3 years. What will the final balance of the saving account be after 3 years?</p> <p>A \$92.73 B \$654.73 C \$562 D \$5.50</p> <p>$I = prt$ $I = 562(0.055)(3)$ $I = 92.73$ Total = 562 + 92.73 Total = 654.73</p>

9. A surfboard costs \$670 and the sales tax is 8.25%. What is the total cost of the surfboard?

- A \$678.25
- B \$55.28
- C \$552.75
- D \$725.28

$$670(1.0825) = 725.28$$

10. Stacey read 15 pages during a 42 minute work study. At this rate, how many pages would she have read in 14 minutes?

- A 5 pages
- B 210 pages
- C 1 page
- D 4 pages

$$\frac{p}{m} = \frac{15}{42} = \frac{x}{14}$$

$$42x = 210$$

$$x = 5$$

11. In a survey, students were asked to choose their favorite sport. The table shows the results.

Favorite Sport	
Sport	Percent
Football	75
Baseball	15
Soccer	10

Based on the data, predict how many out of 2,000 students would choose football.

- A 150
- B 1,500
- C 15
- D 1

$$\frac{75}{100} = \frac{x}{2000}$$

$$100x = 150000$$

$$x = 1500$$

12. Tim and Tom are playing a game with number cards. At the end of the game Tom still has 5 cards. If the value of each card is -50 points, how many points does Tom have?

- A -250
- B -10
- C 10
- D 250

$$5(-50) = -250$$

13. The temperature, in degrees Fahrenheit (°F), decreased at a constant rate from 0°F to -35°F in 5 hours. By how many degrees did the temperature decrease per hour?

- A 5°
- B 7°
- C 30°
- D 35°

$$\frac{35}{5} = 7^\circ$$

14. What value of x makes the equation below true?

- A 5
- B 8
- C 13
- D 24

$$6x - 9 = 39$$

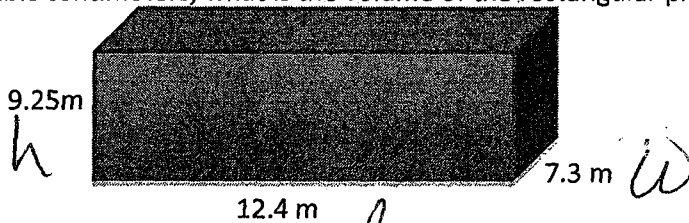
$$+9 \quad +9$$

$$6x = 48$$

$$\frac{6x}{6} = \frac{48}{6}$$

$$x = 8$$

12. 15. In cubic centimeters, what is the volume of the rectangular prism shown below?



SHOW YOUR WORK.

$$V = lwh$$

$$V = 12.4(7.3)(9.25)$$

Answer: $V = 837.31 \text{ m}^3$