

Pre-Algebra Review

Review Assignment

Show all work and circle your answer.

Name: Key

Date: \_\_\_\_\_ Pd: \_\_\_\_\_

1.  $3\frac{3}{5} + 2\frac{5}{6} - 4\frac{7}{10}$   
 $3\frac{18}{30} + 2\frac{25}{30} - 4\frac{21}{30}$   
 $5\frac{43}{30} - 4\frac{21}{30}$   
 $1\frac{22}{30}$   
 $1\frac{11}{15}$

2.  $7.56 + 25.8 - 0.9$   
 $33.36 - 0.9$   
 $32.46$

3.  $0.8 \times 0.3$   
 $0.24$

4.  $48 \div 2.5$   
 $480 \div 25$   
 $19.2$

5.  $5\frac{1}{4} \times 1\frac{2}{7}$   
 $3\frac{21}{4} \times \frac{9}{7}$   
 $\frac{27}{4}$   
 $6\frac{3}{4}$

6.  $6\frac{2}{3} \div 2\frac{1}{2}$   
 $4\frac{20}{3} \times \frac{2}{5}$   
 $\frac{8}{3}$   
 $2\frac{2}{3}$

7.  $.25 \times 8.6$   
 $2.15$

8.  $24.5 \div 0.15$   
 $\frac{2450}{15}$   
 $163.\bar{3}$   
 $163\frac{1}{3}$

Show all work and answer in a complete sentence.

9. Eddie's test average after 4 quizzes is 88%. If he gets a 95% on the next quiz, what will his new average be to the nearest percent?

$$\text{Mean} = \frac{\text{Total}}{\text{\# of quizzes}}$$

$$88 = \frac{T}{4}$$

$$T = 352$$

$$\text{New Total} = 352 + 95$$

$$\text{Now} = 447$$

$$\text{Ave} = \frac{447}{5}$$

$$\text{Ave} = 89.4$$

Eddie's new average would be 89%.

10. The luxury tax on purchasing a boat in Maryland is 12%. What would be the total cost of buying a boat that lists for \$28,500?

$$\text{Tax} = 28,500(.12)$$

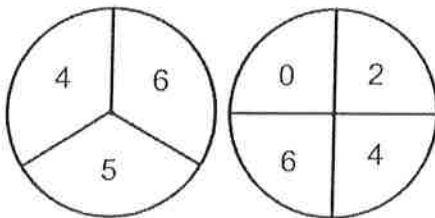
$$\text{Tax} = 3420$$

$$\text{Total cost} = 28,500 + 3420$$

$$\text{Total} = 31,920$$

The total cost of the boat would be \$31,920.

11. A game involves spinning the two spinners below and then adding the point values. To win, you must get at least 10 points. What is the probability that you will win this game? Express your answer as a simplified fraction, decimal, and percent.



		Spin 1		
		4	6	5
Spin 2	0	4	6	5
	2	6	8	7
	4	8	10	9
	6	10	12	11

12 outcomes

$$P(\geq 10) = \frac{4}{12} = \frac{1}{3}$$

Fraction:  $\frac{1}{3}$     Decimal:  $.33$     Percent:  $33\frac{1}{3}\%$