

Name _____

Grade _____

6th Grade Math Diagnostic Test

Estimate the value.

1. $3942 \times 7 \approx$

Find the value of:

2. $4 + 8 \times 2 \div 16 - 7 =$

Solve.

3. $81 \times 1.29 =$

4. $1421 \div 7000 =$

Express in simplest form.

5. $\frac{9}{16} \div 6 =$

6. $5\frac{1}{9} - 2\frac{2}{3} =$

Express as a percentage.

7. 215 out of 500

Find the equivalent measure.

8. $\frac{4}{5} \text{ min} = \text{_____} s$

Solve.

9. What fraction of \$2 is 75¢?

10. Find the average of 21.5, 18.2, and 5.3.

11. Write the missing number (ratio).

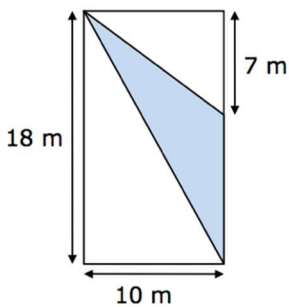
$$30 : \underline{\hspace{2cm}} = 6 : 3$$

12. A pole, 135 cm long, is painted red, white, and blue in the ratio 3 : 4 : 2. What length of the pole is painted white?

13. The normal price of a camera was \$80. At a sale it was sold at a discount of 15%. What was the selling price of the camera?

14. The length of one side of a cube is 1 ft. What is its volume in cubic inches? (Do not have to calculate the number.)

Find the area of the shaded figures.



Find the unknown angle.

