Geometry Test 1

Work in your NOTEBOOK!

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- (a) 7 12
- (b) 4^2
- (c) $7 2 \cdot 3$
- (d) $4 \cdot (7-2)$
- (e) 6 8/2
- 2. Substitute x = 2, y = -12, z = 4 into the expression xy z.

3. Compare the following decimals with <,> or=:

- (a) 0.5____0.4
- **(b)** 0.415____0.5
- (c) 3.131000____3.131

4. Evaluate:

- (a) 3.4 + 5.2
- **(b)** 2.4 + 3.815
- (c) 9.6 3.7
- (d) $15.4 \div 4$
- 5. Substitute x = 1.6, y = -4.2 into xy.

6. Write in scientific notation:

- **(a)** 54000
- **(b)** 514
- (c) 0.0054

7. Write each number as a decimal number

- (a) 6.7×10^3
- (b) 5.14×10^{-3}

- 8. Add or subtract the following fractions
 - (a) $\frac{1}{5} + \frac{3}{5}$
 - (b) $\frac{1}{4} + \frac{1}{5}$
 - (c) $\frac{7}{3} \frac{3}{4}$
- 9. Compare the fractions using <,> and =:
 - (a) $\frac{2}{7}$ $\frac{1}{7}$
 - (b) $\frac{-8}{9}$ $\frac{2}{9}$ (c) $\frac{3}{5}$ $\frac{4}{7}$
- 10. Simplify the following fractions:
 - (a) $\frac{3}{6}$
 - (b) $\frac{10}{18}$
 - (c) $\frac{10x^2}{18x^4}$
- 11. Convert the $\frac{3}{7}$ to a decimal.
- 12. Convert the 0.73 to a fraction.
- 13. Perform the indicated operations:
 - (a) $\frac{3}{7} \cdot \frac{4}{5}$
 - (b) $\frac{4}{5} \div \frac{1}{3}$
- 14. Illustrate each of the following by labeling two points P and T and drawing the picture:
 - (a) R_{TP}
 - (b) \overline{TP}
 - (c) L_{TP}
- 15. Construct a triangle whose sides are length 3 cm, 5 cm, and 6 cm. What are the angles of that triangle.
- 16. There are 360° longitude on the earth. How long is one degree if the circumference of the earth is 24,000 mile?
- 17. What is the definition of supplementary angles?
- 18. We have 2 points X and Y that are both less than 8 cm from a point Z:

- (a) Draw a picture of the situation.
- (b) What is the largest the distance from X to Y could be?
- (c) What is the smallest the distance from X to Y could be?
- 19. Use a protractor to draw an angle of 60° :
- **20.** Given the image below, and $m\angle BAC=32^o$ and $m\angle BAD=63^o$ find $m\angle CAD$.

