

Parent Signature: _____

Name: _____

Date: _____

6th Grade Practice Sheet 20

Show all work - ***NO CALCULATORS!***

<p>1. Use <, >, = to compare.</p>	<p>Write the symbol in the blank.</p>	<p>6. Use <, >, = to compare.</p>	<p>Write the symbol in the blank.</p>
<p>0.09 _____ 0.009</p>		<p>$5\frac{9}{10}$ _____ 5.09</p>	
<p>2. Use <, >, = to compare.</p>	<p>Write the symbol in the blank.</p>	<p>7 Use <, >, = to compare.</p>	<p>Write the symbol in the blank.</p>
<p>Three thousandths _____ 0.03</p>		<p>42% _____ $\frac{21}{50}$</p>	
<p>3. Find the <u>area</u> of a circle with a <u>diameter</u> of 22 inches. Give the answer in terms of pi. Give the unit as well.</p>	<p>8. Find the <u>diameter</u> of circle with an <u>area</u> of 81π in². Give the unit as well.</p>		
<p>4. Find the product.</p>	<p>9. Find the product.</p>		
<p>4.8 and 1.9</p>		<p>0.052 and 4</p>	
<p>5. Simplify the product.</p>	<p>10. Simplify the product.</p>		
<p>$1\frac{3}{7}$ and $6\frac{7}{10}$</p>		<p>$\frac{1}{10}$ and $\frac{5}{6}$</p>	

<p>11. Simplify.</p> $4(4 + 2^2)$		<p>16. Evaluate the expression when $x = \frac{1}{4}$ and $y = 8$</p> $3xy$	
<p>12. Simplify.</p> $4 \cdot 12^2 - (6 + 4)$		<p>17. Evaluate the expression when $x = 3$ and $y = 6$.</p> $y^2 - 7y + 2$	
<p>13. Simplify.</p> $4(4 + 2)^2$		<p>18. Evaluate the expression when $x = \frac{1}{3}$ and $y = 8$</p> $2(10 - 24x) + y^2$	
<p>14. Write the phrase as an expression.</p> <p>three more than twice a number k</p>		<p>19. Write the phrase as an expression.</p> <p>half of a number q plus eight</p>	
<p>15. Write the phrase as an expression.</p> <p>a number p decreased by six</p>		<p>20. Write the phrase as an expression.</p> <p>one plus the product of a number y and three</p>	

Be sure to show how you made your choice.

21) Adam protects his tomato plants by surrounding them with rope. Adam used 28.4 *inches* of rope for each tomato plant. Rope is sold in rolls 100 *feet* long. **About** how many tomato plants can be protected from one roll?

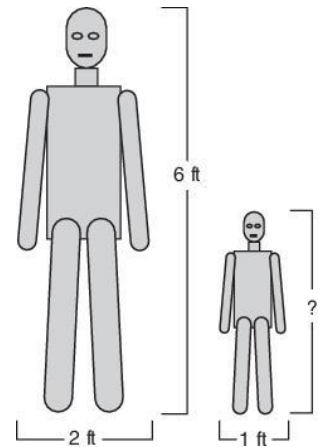
- a. 3
- b. 34
- c. 41
- d. 56

22) Which pair of shapes appears to be congruent?



3) Greg is similar in height and width to his father. If his father is 6 ft tall and 2 ft wide and Greg is 1 ft wide, how tall is Greg?

- a. 1 ft
- b. 2 ft
- c. 3 ft
- d. 4ft



24) If Liam weighs 5 times what his brother weighs and Liam weighs 150 pounds, what does his brother weigh?

- a. 15 pounds
- b. 30 pounds
- c. 145 pounds
- d. 750 pounds

25) George has to simplify an order of operations expression for her math homework. The expression is: $6 + 3(5 + 2)$. What is the correct response?

- a. 126
- b. 63
- c. 36
- d. 27

26) If 3 out of 5 students in the class preferred pizza to hamburgers, what percent of the students preferred pizza?

- a. 30%
- b. 40%
- c. 50%
- d. 60%

27) Simplify the following expression: 10.8×0.03

- a. 0.00324
- b. 0.324
- c. 3.24
- d. 32.4

28) Five people picked blueberries: Sargon picked 87; Esho picked 94; Atour picked 55; Aubela picked 126; and Ramona picked 135 blueberries. Estimate the total number of blueberries picked by rounding each number to the nearest ten.

- a. 490 blueberries
- b. 500 blueberries
- c. 510 blueberries
- d. 520 blueberries

29) Solve: $\frac{3}{5} \div 15$.

- a. 25
- b. $\frac{1}{25}$
- c. 9
- d. $\frac{1}{9}$

30) Ross spent \$154.02 on 51 cards at the stationery store. If all 51 cards cost the same amount, how much did each card cost?

- a. \$3.00
- b. \$3.02
- c. \$3.20
- d. \$3.22