6th Grade Practice Sheet 17

Show all work

1. Evaluate	6. Evaluate
$(4^2 - 6)^2 - (12.4 \div 2) - 5$	$\left(\dfrac{5}{18} \div \dfrac{2}{9}\right) - \dfrac{1}{4} + 3^2$
2. Evaluate	7. Evaluate
$\dfrac{27 - 2 + 6}{4} + \left(\dfrac{1}{2}\right)^2 - 3 * 4$	$\dfrac{80 \div 5 - 3}{5} - 2$
3. Find the quotient: (Show all work, no calc.) $51.9 \div 1.9$	8. 63 inches = _____ft _____in
4. Find the quotient: (Show all work, no calc.) $1254 \div 0.6$	9. 76 hours = _____days _____ hours
5. Simplify using distributive property $5(9 + 16)$ $\qquad$ $9(3x + 6)$	10. Simplify using distributive property $4(3 + 7)$ $\qquad$ $8(x + 7) - 5$

11. Write each percent as a decimal.		16. Write each percent as a fraction, and simplify.	
88% 325% 7%		88% 325% 7%	

12. Simplify the quotient		17. Find 30% of 140.	
$1\frac{1}{2}$ *and* $\frac{3}{8}$			

13. Simplify the product		18. Find $\frac{3}{10}$ of 140.	
$\frac{5}{12}$ *and* $\frac{7}{10}$			

14. Simplify the product		19. Place the sign $(<,>,=)$ to make each statement true.	
$1\frac{1}{3}$ *and* $\frac{1}{8}$		$0.65 \underline{\quad} \frac{7}{11}$	

15. Find the product: (Show all work, no calc.)		20. Find the product: (Show all work, no calc.)	
$6.25 \cdot 10.24$		$9.84 * 0.3$	

21) Phillip is hiring a photographer for his wedding. The photographer charges $1000 for the time he spends taking pictures and $5 for each print Phillip orders. Which of the following expressions represents the total cost of the photographer's time and p number of pictures?

   a. $1000 + $5

   b. $1000p + $5

   c. ($1000 + $5)p

   d. $1000 + $5p

22) If a = 2, what is the value of 7 − 3a?

   a. 1

   b. 2

   c. 8

   d. 15

23) How is the expression 2 · 2 · 2 · 2 · 2 written in exponential form?

   a. 8^4

   b. 2^5

   c. 16^2

   d. 4^2 x 2

24) Marcela has a cake recipe that calls for $3\frac{1}{2}$ cups of sugar. She is going to make the cake $2\frac{1}{4}$ times bigger. How many cups of sugar will she need?

   a. $5\frac{3}{4}$ cups

   b. $6\frac{1}{2}$ cups

   c. $7\frac{7}{8}$ cups

   d. $8\frac{1}{8}$ cups

25) Nathan has a playhouse in his backyard that is about $\frac{1}{5}$ of the size of his actual house. If Nathan's house is   35 feet tall, about how tall is his playhouse?

   a. 5 feet

   b. 7 feet

   c. 10 feet

   d. 35 feet

26) The drama class is making pirate costumes. A piece of cloth $3\frac{1}{2}$ yards long is used to make eye patches. Each patch uses $\frac{1}{6}$ yard. How many patches can be made?

a) $1\frac{1}{6}$ patches

b) 3 patches

c) $20\frac{1}{2}$ patches

d) 21 patches

27) Lucy has $16\frac{1}{4}$ yards of material. She has a dress pattern that uses $3\frac{1}{4}$ yards of material. How many dresses could she make?

a) 5 dresses

b) 6 dresses

c) 9 dresses

d) 10 dresses

28) Amanda ate $\frac{1}{3}$ of her candy. She gave the remaining $\frac{2}{3}$ to four friends. What fraction did each friend get?

a) $\frac{12}{1}$

b) $\frac{6}{1}$

c) $\frac{1}{12}$

d) $\frac{1}{6}$

29) Match each item from column A to one item in column B.

A   B

$-8 + 5$ -13
$-8 - 5$ 13
$-8 - (-5)$ -3
$8 + 5$ 3
$8 - 5$
$8 + (-5)$

30) Match each item from column A to one item in column B.

A   B

5(6 + 8)   40 + 48

48 + 30   8 + 30

(5 + 6) x 8   6(5 + 8)

5 + 48   40 + 30

6 x 5 + 8   5 + 6 x 8