

Name: _____

(Parent Signature)

Date: _____

6th Grade Practice Sheet 20

Show all work -

| | | | |
|---|--|--|--|
| 1. Evaluate $(12 - 3) + 8 \cdot \frac{1}{2}$ | | 6. Evaluate. $\left(\frac{1}{3}\right)^2 + \frac{8}{9}$ | |
| 2. Evaluate $23 - 10 + 32 \div 8 \cdot 2$ | | 7. Evaluate $\frac{8}{9} \div \frac{2}{3} + \frac{5}{18} - \frac{1}{6}$ | |
| 3. Find the quotient. $\frac{8}{12}$ and $\frac{3}{8}$ | | 8. Find the product. $\frac{3}{4}$ and $\frac{5}{6}$ | |
| 4. Find the quotient. $\frac{3}{4}$ and $2\frac{1}{8}$ | | 9. Find the product. $1\frac{1}{10}$ and $\frac{2}{3}$ | |
| 5. Find the total of $5\frac{4}{5}$ and $2\frac{2}{3}$ | | 10. Subtract & simplify $3\frac{3}{8}$ and $1\frac{3}{4}$ | |

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|--|--|--|--|
| <p>11. Simplify</p> $5(3x - 4) + 2$ | | <p>16. Simplify</p> $8 + 3(4x - 2) + \frac{50}{5^2}$ | |
| <p>12. Solve the equation.</p> $24 = m - 15$ | | <p>17. Solve the equation.</p> $h - 6.5 = 15$ | |
| <p>13. Evaluate</p> $4^2 - 5 \div \frac{5}{10}$ | | <p>18. Evaluate</p> $4^2 \div 0.8 + 2(3 + 2^2 \div 2)$ | |
| <p>14. Estimate and find the product</p> $29.158 \cdot 10.5$ | | <p>19. Estimate and find the product</p> $8.75 * 5.43$ | |
| <p>15. Solve the equation.</p> $12 \cdot h = 60$ | | <p>20. Solve the equation.</p> $\frac{y}{4} = 12$ | |

Show how you made your choice.

21) Which inequality represents the visual?



- a. $x > 3$
- b. $x < 3$
- c. $x \geq 3$
- d. $x \leq 3$

22) Jane's science teacher says they must complete at least 12 pages in their workbook a month to pass the class. What inequality represents this situation?

- a. $x < 12$
- b. $x > 12$
- c. $x \geq 12$
- d. $x \leq 12$

23) Which equation demonstrates the distributive property?

- a. $x \cdot 3 = 3 \cdot x$
- b. $4(n \cdot 6) = 4n \cdot 6$
- c. $3(x + 4) = 3x + 12$
- d. $n \cdot \frac{1}{n} = 1$

24) A whiptail lizard has a tail that is twice as long as its body. The equation $2b = 6$ describes the length of a certain whiptail lizard's tail in inches. If b is the length of the whiptail lizard's body, what is the total length of the lizard?

- a. 12 inches
- b. 4 inches
- c. 3 inches
- d. 8 inches

25) If $b = 4$, what is the value of $b^2 + 2b - 4$?

- a. 4
- b. 24
- c. 12
- d. 20

26) Simplify: $1 + 2(3^2)$

a. 19

b. 27

c. 37

d. 81

27) Simplify: $4^2 + \frac{(3)^2}{24}$

a. $8\frac{1}{4}$

b. $8\frac{3}{8}$

c. $16\frac{1}{4}$

d. $16\frac{3}{8}$

28) David's age is 4 less than twice Jason's age. Which of the following expressions best represents David's age in relation to Jason's age?

a. $2n - 4$

b. $4 - 2n$

c. $4n - 2$

d. $2 - 2n$

29) Which expression represents the phrase "a number decreased by seven"?

a. $7n$

b. $n - 7$

c. $7 - n$

d. $\frac{7}{n}$

30) Manny buys a bag of apples for \$7.99. There are 12 apples in the bag. What equation could he use to solve the cost of each apple?

a. $12 + x = 7.99$

b. $\frac{x}{12} = 7.99$

c. $12x = 7.99$

d. $x - 7.99 = 12$