

Board PROBLEMS - Ch. 4

① SOLVE FOR THE UNKNOWN.

$$-2x + 7 + 3x - 4 = 9$$

② SIMPLIFY

$$(7-3)^2 \cdot |3-7| =$$

$$\textcircled{3} \frac{1}{2}x + \frac{4}{7} = \frac{9}{28}$$

$$\textcircled{4} .05x + .003 = 11$$

$$\textcircled{5} (-6 + 4 \cdot 8 + 3^2) + (3 - 6 - 7^2 \cdot 3 + 4)$$

Name : _____

Score : _____

Teacher : _____

Date : _____

1) $-45 \div 5 =$

2) $6 \times 8 =$

3) $5 + -6 =$

4) $6 - 9 =$

5) $-6 + -8 =$

6) $-10 \div -2 =$

7) $-6 - -2 =$

8) $-8 - -3 =$

9) $5 \times -4 =$

10) $2 \times -4 =$

11) $-35 \div 7 =$

12) $-5 \times 2 =$

13) $-54 \div 9 =$

14) $8 + -3 =$

15) $36 \div 6 =$

16) $2 \times 3 =$

17) $-4 - 4 =$

18) $-5 + 2 =$

19) $72 \div 9 =$

20) $-6 + -4 =$

21) $2 \times 8 =$

22) $-4 + 6 =$

23) $9 + 8 =$

24) $4 \div 2 =$

25) $7 \times 4 =$

26) $4 - -7 =$

27) $-72 \div 8 =$

28) $-4 + 4 =$

29) $-2 - -8 =$

30) $7 - 3 =$



NOTES Ch. 4 - DISTRIBUTIVE PROPERTY

$$2(8) = 2(\quad) + 2(\quad) = 2(+\quad)$$

$$8(D+3) =$$

$$4(17) = 4(\quad) \neq 4 \cdot \quad + 4 \cdot \quad$$
$$=$$
$$=$$

$$3(\underline{\quad} + \underline{\quad}) = 3A + 3B$$

FACTORING MEANS DIVIDING

$$7x + 7m = \underline{\quad} (\quad + \quad)$$

$$8x + 24y = \underline{\quad} (\quad + \quad)$$

$$9x + 12y = \underline{\quad} (\quad + \quad)$$

NOTES CH 4

$$\textcircled{1} \quad -2(4x + 3y + 5) =$$

$$\textcircled{2} \quad 3x(y + 4z) =$$

FACTOR USING GREATEST COMMON FACTOR FIRST,
THEN SOLVE.

$$6x + 8 = 24$$

$$6A - 20 = 20$$

$$.3x - 1.2 = .34$$

SYSTEMATIC REVIEW

WRITE $\frac{1}{2}$ as a decimal $\frac{1}{3}$ percent

Write 250% AS A DECIMAL $\frac{1}{3}$ REDUCED FRACTION.

PRACTICE PROBLEMS

$$\textcircled{1} \quad -2(3x + 2y + Y) =$$

$$\textcircled{2} \quad 5(2C + 4D) =$$

$$\textcircled{3} \quad 8x + 12Y = 4(\underline{\quad} + \underline{\quad})$$

$$\textcircled{4} \quad -7x - 21Y = \underline{\quad}(\underline{\quad} + \underline{\quad})$$

$\textcircled{5}$ SOLVE,
 $14M - 4Z + 56M = 28$

$$\textcircled{6} \quad \frac{3}{4} + \frac{1}{3}Q = \frac{5}{6}$$

LESSON PRACTICE

Rewrite each expression using the distributive property of multiplication. The first problem is done for you.

1. $5(4 + 3) = 5(4) + 5(3)$

2. $6(2 + 3 + 1) =$

3. $7(A + B) =$

4. $3(4C + 3B) =$

5. $5(2X + 3Y - 3 + 4X) =$

6. $8(A + 3B + 8 + 4A) =$

Rewrite each expression using the distributive property of multiplication in reverse. (Find the greatest common factor.) The first one is done for you.

7. $6X + 6Y = 6(X + Y)$

8. $8A + 16B =$

9. $14X + 21Y =$

10. $-2M - 6N =$

11. $6B + 18C =$

12. $15X + 10A =$

Simplify each equation using the greatest common factor, and then solve for the unknown.
The first one is done for you.

$$\begin{aligned} 13. \quad 5X + 15 &= 45 \\ 5(X + 3) &= 5(9) \\ X + 3 &= 9 \\ X &= 6 \end{aligned}$$

14. $10X + 16 = 26$

15. $13Y - 26 + 39Y = 52$

16. $8A - 10 - 6A = 14$

17. $12X + 21 = 30$

18. $8X - 28 = 12$