12/14/16 CCM6

1. Write in agenda...HW is page 26

2. Get out pages 22-23 to check.

3. Get out your warm-up page.

Warm-ups 12/14/16

1. Write an equation and solve:

   3 less than a number is the same as 19

2. Find $^3/_8$ of $1^1/_2$

3. Simplify $3(x + 7) + 2x - 10$

Warm-ups 12/14/16

1. Write an equation and solve:

   3 less than a number is the same as 19

   $-$ n $=$

   $n - 3 = 19$

   $n = 22$

n	$= 22$
-3	$+3$
$= 19$	19

2. Find $^3/_8$ of $1\ ^1/_2$

   $\frac{3}{8} \cdot \frac{3}{2} = \frac{9}{16}$

3. Simplify $3(x + 7) + 2x - 10$

   $3x + 21 + 2x - 10$

   $5x + 11$

√ HW p.22

45.50=7x

UNIT 7—CCM6 and CCM6+

For the problems below, choose which equation best matches the situation.

1. Diana can use the equation y = 7x to calculate her pay, where y represents the amount of pay, and x represents the number of hours worked. How many hours did Diana work if she was paid $45.50?

   A) 5.5 hours B) 6 hours C) 6.5 hours D) 7 hours

2. Karen recorded her walking pace in the table below. What equation best represents this relationship?

Hours Walked (h)	Miles Walked (m)
2.5	8.75
4	14

   A) h = m + 10
   B) h = 3.5m
   C) m = h + 10
   D) m = 3.5h

   h $\xrightarrow{\cdot 3.5}$ = m

3. Twice a number is twenty-eight.

   A) x + 2 = 28 B) 28 = $\frac{x}{2}$ C) 2x = 28 D) x^2 = 28

4. The quotient of thirty-nine and a number is three.

   A) $\frac{39}{w}$ = 3 B) $39w = 3$ C) 39 – w = 3 D) $\frac{w}{39}$ = 3

5. Five less than three times a number is forty-six.

   A) 5 – 3t = 46 B) 3t – 5 = 46 C) $\frac{5}{3t}$ = 46 D) (5 – 3)t = 46

6. Eric had $197 in his savings account before he was paid his weekly salary. His current savings balance is $429. If Eric deposits all of his earnings, then how much money does he earn each week?

   A) 197 + 429 = n B) 197 + n = 429 C) 197n = 429

7. Jack throws a birthday party in his garden. He needs 260 ice cubes for the party. He arranged the ice trays into two rows in the fridge. Each tray contains 26 ice cubes. How many ice trays (***t***) will Jack need?

   ·t

   A) 260 + 26 = t B) 260 – 26 = t C) 26t = 260 D) $\frac{26}{t}$ = 260

✓ HW p. 23

UNIT 7—CCM6 and CCM6+

8. On Christmas, a shopkeeper needs 820 candles. If each packet contains 20 candles, how many packets he should buy?

A) 20 + c = 820 B) c – 20 = 820 C) 20c = 820 D) $\frac{20}{c}$ = 820

9. Last Saturday, Jenny went to the market. She spent $35 on fruits, $25 on vegetables and $10 on chocolates. After the purchase, she had $286 left. What is the total amount she had before she went to the market?

A) 35 + 25 + 10 + x = 286 B) 286 + x = 35 + 25 + 10

✓ C) 35+25+10+286=x D) x−35−25−10=286 ✓

10. There are 3,500 books in a college library. 1,635 books are already allotted to the students. How many books are currently available in the library?

A) b = 3500 + 1635 B) b = 3500 – 1635 C) 1635b = 3500

11. There are 4,500 apples which are packed in 15 boxes. How many apples are there in each box?

A) b + 15 = 4500 B) b – 15 = 4500 C) 15b = 4500 D) $\frac{15}{b}$ = 4500

12. James wrote 665 poems in his entire life. 430 poems are very prominent and they also became very famous. How many of his poems were not that popular?

✗ A) p = 665 + 430 B) p + 430 = 665 ✗ C) p + 665 = 430

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13. Amy and her three friends went out to dinner. The total bill was $84. If the friends equally split the bill, how much will each friend pay?

A) 3f = 84 B) 3 + f = 84 C) 4f = 84 D) 4 + f = 84

d 2·b

14. The distance to the mountains (m) is twice the distance to the beach (b).

A) 2b = d B) 2d = b C) b^2 = d D) d^2 = b

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UNIT 7—CCM6 and CCM6+

WRITING EQUATIONS

Problems	Answers
Rewrite each sentence in mathematical form as an equation. Then solve.	
1) X minus five is equal to two. • x = ✓	Equation: _____ Solution: _____
2) Three times a number is the same as 7 minus 1. − = 6 = 6 ✓ ✓	Equation: 3x = 6 Solution: x = 2
3) 5 less than m is 9. ✓ m = 14 −5 +5 9 9	Equation: m − 5 = 9 Solution: m = 14
4) the sum of three and x is equal to fifty-four + = ✓ x = 51 +3 −3 54 54	Equation: 3 + x = 54 Solution: x = 51
5) The sum of w and 8 is less than 5 times 7. • = ✓	Equation: _____ Solution: _____
6) the product of 9 and w is equal to the difference of 41 and 5. − ✓	Equation: 9w = 36 Solution: w = 4

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UNIT 7—CCM6 and CCM6+

7) Larry mows lawns in his neighborhood. He mowed *l* lawns today. He charges $15 per lawn. If Larry made $90 today, how many lawns did he mow? $l = 6$ $\cdot 15 \quad \div 15$ $90 \quad 90$	Variable: l = # lawns Equation: $15l = 90$ Solution: $l = 6$
8) Sam gave each of his *f* friends 5 cookies. He gave away a total of 35 cookies. How many friends did he give cookies to?	Variable: f = # friends Equation: $5f = 35$ Solution: $f = 7$

HW p26

UNIT 7—CCM6 and CCM6+

Notes: Writing Equations from Word Problems

1.) Karter had $14 in his bank account before putting in his birthday earnings. He now has $98. How much money did he earn at his birthday?	Try to solve by defining a variable, setting-up an equation, and solving for the variable! Variable : m = b day $ Equation : _____ Solution: _____
2.) Larsen spent $78 on three pairs of sandals for the summer. If each pair of sandals cost the same amount, write an equation that represents this situation and solve to find the cost of one pair of sandals.	Variable : p = $ per pair sandals Equation : _____ Solution: _____
3.) Pamela earns $18 for vacuuming and dusting her house. She spends $4 on lunch and $9 on a new dress. Write and solve an equation to show how much money Pamela has left.	Variable : m = $ left Equation : _____ Solution: _____
✓ 4.) Thomas had a bag of gum drops that he divided equally among his four friends. If each friend receives 56 gum drops, how many gum drops did he start with? (Thomas gave all the gum drops away.) $\frac{g}{56}=4$ $\frac{g}{4}=56$	Variable : g = start # gumdrops Equation : 4·56 = g Solution: g = 224