NAME_____DATE_____PER._____

SOLVING MULTI-STEP EQUATIONS W/THE DISTRIBUTIVE PROPERTY

Solve each equation showing ALL steps.

1. 4(a + 7) = -16 a = _____	2. 20 = 4(b + 3) b = _____
3. 0 = -0.4(c – 6) c = _____	4. $\dfrac{-3}{7} = \dfrac{9}{d-2}$ d = _____
5. 18 = 0.5(6e – 12) e = _____	6. $\dfrac{1}{2}(2f + 6) = -1$ f = _____

Write an equation for each situation and solve.

7. The length of a picture is 8 times the difference of the width and 4. If the length of the picture is 16 cm, find the width.

Equation:_____

8. Catya's age is half the sum of her brother's age and 6. If Catya is 9 years old, how old is her brother?

Equation:_____

9. An integer is 10 times the difference of a rational number and 5. If the value of the integer is 124, what is the value of the rational number?

Equation:_____

REVIEW. Show work!!!

10. _____	A recycling center pays $0.35 per pound for aluminum cans that it receives. If students at Ash High School want to raise $500 in an aluminum-recycling project, what is a reasonable number of pounds of aluminum cans they must collect?
	A. 750 lb C. 175 lb
	B. 500 lb D. 1500 lb
11. _____	Rodrick worked at Jack in the Box for 37.5 hours last week. His pay for the week, before taxes was deducted, was $346.88. How much did he earn per hour?
	A. $9.50 C. $9.25
	B. $9.00 D. $8.67

Answers in random order for 1 – 9: 12, -4, -19, 2, -11, 8, 6, 6, $\frac{87}{5}$