

Curriculum Outcome

- (PR 5) Demonstrate an understanding of polynomials (limited to of degree less than or equal to 2).
- (PR 6) Model, record and explain the operations of addition and subtraction of polynomial expressions, concretely, pictorially and symbolically (limited to polynomials of degree less than or equal to 2).
- (PR 7) Model, record and explain the operations of multiplication and division of polynomial expressions (limited to polynomials of degree less than or equal to 2) by monomials, concretely, pictorially and symbolically.

Student Friendly:

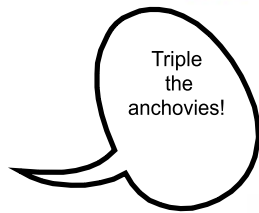
"Multiplying & Dividing Polynomials "



Warm Up
Quiz

Section 5.5

Multiplication and Division of a Polynomial by a Constant





Things you already know!!

$$4 \times 5 = 20$$

$$(4)(5) = 20$$

$$4(5) = 20$$

Things you need to know :)

Why didn't I use this example??

$$(4)(m) = 4m$$

$$6(z) = 6z$$

$$(-2)(-r) = 2r$$

$$4(-3v) = -12v$$

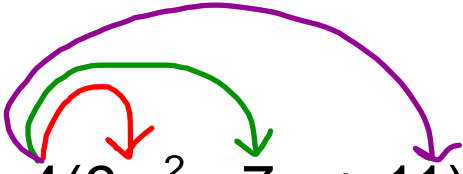


$$\#1) \quad 4(6w) = 24w$$

$$\#2) \quad 4(6w - 11)$$


$$24w - 44$$

Hint:
Multiply each term in the
brackets by the term on
the outside of the brackets.

$$\#3) \quad 4(6w^2 - 7p + 11)$$


$$24w^2 - 28p + 44$$



Things you already know!!

$$30 \div 3 = 10$$

$$\frac{30}{3} = 10$$

Things you need to know :)

$$60z \div 15 =$$

42

$$\frac{48m}{4} =$$

12m



$$\frac{100r^2 + 50m}{5}$$

Separate the polynomial to make a sum of fractions.

$$= \frac{100r^2}{5} + \frac{50m}{5}$$

Now Divide each term

$$20r^2 + 10m$$

$$(100r^2 + 50m - 65z) \div (-5)$$

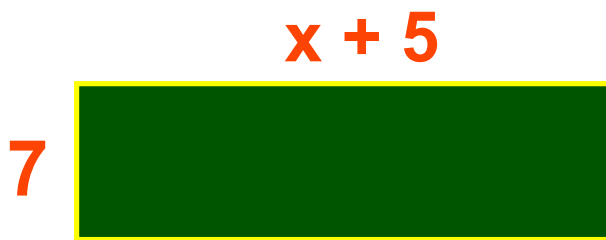
$$\frac{100r^2}{-5} \quad + \frac{50m}{-5} \quad - \frac{65z}{-5}$$

$$-20r^2 - 10m + 13z$$

A = length x width

A = (l)(w)

Write the multiplication statement
for the area of each rectangle.



A = (l)(w)

$$A = 7(x + 5)$$

$$A = 7x + 35$$

If $x = 10$ what is the
area?

$$A = 7x + 35$$

$$7(10) + 35$$

$$= 70 + 35$$

$$= 105$$



Class/Homework



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No Algebra Tiles
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7

8

9,

11acf

12,

13ace

14

15acf

16adg

18

22bcd

23a,b