



Warm Up Grade 9



Determine the product or the quotient.

a) $(7r)(11)$

$$= 77r$$

b) $(6m^3 + 2m - 5)(-7)$

$$-7(6m^3 + 2m - 5)$$

$$-42m^3 - 14m + 35$$

c) $\frac{-81td - 72t + 90r}{-9}$

$$\frac{-81td}{-9} - \frac{72t}{-9} + \frac{90r}{-9}$$

$$+9td + 8t - 10r$$

Remember

$$4 \times 4 \times 4 \times 4 \times 4 = 4^5$$

$$6 \times 6 \times 6 \times 6 = 6^4$$

Therefore:

$$a \times a \times a \times a \times a \times a = a^6$$

**Remember, when multiplying common bases we
ADD the exponents.**

Remember exponent Laws:

$$(11)(5y^2)$$
$$= 55y^2$$

$$(-7n)(5n)$$
$$= -35n^2$$

$$(8m^5)(4m^2x)$$
$$= 32m^7x$$

$$(5x)(3xy)$$
$$= 15x^2y$$

$$3x(2x + 2)$$
$$6x^2 + 6x$$

$$4y(3y + 8x)$$
$$12y^2 + 32xy$$

You Try!

$$1) 12r(3r+6)$$

$$= 12r(3r) + 12r(6)$$

$$= 36r^2 + 72r$$

$$2) -5(4b - 11)$$

$$=$$

$$=$$

$$3) 6k^2(\underline{8fk^3} - \underline{7k^5})$$

$$=$$

$$=$$

$$= 48k^5f - 42k^7$$

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-20b + 55