

Name/Nombre: _____ Date/Fecha: _____

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Multiplying and Dividing integers

* Rules of multiplying integers

- ❖ Rule 1: If the signs are the same, the product is always positive.
- ❖ Rule 2: If the signs are different, the product is always negative.

Factor		Factor		Product	Example
Positive	×	Positive	=	Positive	
Negative	×	Negative	=	Positive	
Positive	×	Negative	=	Negative	
Negative	×	Positive	=	Negative	

* Rules of dividing integers

- ❖ Rule 1: If the signs are the same, the product is always positive.
- ❖ Rule 2: If the signs are different, the product is always negative.

Factor		Factor		Product	Example
Positive	÷	Positive	=	Positive	
Negative	÷	Negative	=	Positive	
Positive	÷	Negative	=	Negative	
Negative	÷	Positive	=	Negative	

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DO NOW!

1. Find each product.

(1) $6 \times (-4)$	(2) 2×4	(3) $3 \times (-4)$	(4) -6×-4
(5) $5 \times (-4)$	(6) -3×4	(7) -5×6	(8) $-2 \times (-1)$
(9) $-8 \times (-2)$	(10) 11×12	(11) -7×5	(12) $8 \times (-12)$
(13) $9 \times (-6)$	(14) -12×7	(15) $6 \times 6 \times -2$	(16) $6 \times (-10) \times -8$
(17) $9 \times 9 \times (-5)$		(18) $-5 \times (-4) \times (-10)$	

2. Find each quotient.

(1) $35 \div (-5)$	(2) $-8 \div 4$	(3) $-24 \div 4$	(4) $-8 \div (-2)$
(5) $8 \div 4$	(6) $-24 \div 8$	(7) $-21 \div 7$	(8) $6 \div (-6)$
(9) $-6 \div (-6)$	(10) $-52 \div (-4)$	(11) $60 \div 12$	(12) $6 \div (-1)$
(13) $65 \div (-13)$	(14) $12 \div 4$	(15) $-8 \div 2$	(16) $\frac{-4}{-1}$
(17) $\frac{-10}{2}$	(18) $\frac{60}{-20}$	(19) $\frac{24}{-12}$	(20) $\frac{-105}{-7}$