

Revision sheet, Primary (6)
Multiplying and dividing Integers

Remarks:

- a) The multiplicative identity in Z is (1)
- b) The additive identity in Z is (Zero)
- c) The additive inverse of (a) is (-a)

The properties of multiplying:

- 1) $a \times b = b \times a$ "commutative"
 - 2) $(a \times b) \times c = a \times (b \times c)$ "associative"
 - 3) $a \times 1 = a$ "multiplicative identity"
 - 4) $a \times (b + c) = a \times b + a \times c$ "distributive property"
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1) Find the result:

- 1) $4 \times (-5) = \dots\dots\dots$
 - 2) $\frac{-12}{-3} = \dots\dots\dots$
 - 3) $\frac{6}{0} = \dots\dots\dots$
 - 4) $-4 \times 0 = \dots\dots\dots$
 - 5) $-(-6) \times (-2) = \dots\dots\dots$
 - 6) $-|20| \times |-3| = \dots\dots\dots$
 - 7) $\frac{-8}{-4} = \dots\dots\dots$
 - 8) $\frac{-24}{8} = \dots\dots\dots$
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2) Complete:

- 1) The multiplicative identity in Z is
- 2) $a \times b = b$ then $a = \dots\dots$
- 3) $a \times b = -b$ then $a = \dots\dots$
- 4) $a + b = b$ then $a = \dots\dots$
- 5) $-12 \times 1 = \dots\dots\dots$ (.....property)
- 6) $5 \times (-2) = (-2) \times \dots\dots$ (.....property)
- 7) $(-7 \times 2) \times 3 = -7 \times (\dots \times 3)$ (.....property)
- 8) The sum of two negative integers is, while the product of two negative integers is a Integer

3) Use properties of multiplication of integers to find:

1) $8 \times 45 \times (-125)$

2) $7 \times 20 \times (-5) \times (-2)$

3) $50 \times (-45) \times 2$

4) Use distributive property to find:

1) $22 \times 4 + 22 \times 8 - 22 \times 2$

2) $(-5) \times (-6) + 2 \times (-6) + (-6)$

3) $32 \times 18 + 32 \times 2 - 32$

4) $(-4) \times (3 + 5)$

5) If $X = 2$, $Y = 1$ and $z = 5$, then find the value of: $3x - 2y + z$.

6) If $a = 6$, $b = -4$, find the value of: 1) $2 + a$ 2) $2a + b$