

# Number – Multiplying and dividing positive and negative numbers

## Multiplying

$$\begin{aligned} (+2) \times (+4) &= (+8) \\ (-4) \times (+3) &= (-12) \\ (+1) \times (-3) &= (-3) \\ (-2) \times (-3) &= (+6) \end{aligned}$$

Can you use the table to multiply the numbers?

×	-	+
+	-	+
-	+	-

- Multiply the numbers
- Find the sign

Find  $(-8) \times (+7)$

$$\begin{aligned} 8 \times 7 &= 56 \\ (-) \times (+) &= (-) \end{aligned}$$

$$(-8) \times (+7) = (-56)$$

×	-4	-3	-2	-1	0	1	2	3	4
3	-12	-9	-6	-3	0	3	6	9	12
2	-8	-6	-4	-2	0	2	4	6	8
1	-4	-3	-2	-1	0	1	2	3	4
0	0	0	0	0	0	0	0	0	0
-1	4	3	2	1	0	-1	-2	-3	-4
-2	8	6	4	2	0	-2	-4	-6	-8
-3	12	9	6	3	0	-3	-6	-8	-12

Can you use the table to divide the numbers?

÷	-	+
+	-	+
-	+	-

## Dividing

$$\begin{aligned} (+9) \div (+3) &= (+3) \\ (-4) \div (+2) &= (-2) \\ (+8) \div (-4) &= (-2) \\ (-12) \div (-6) &= (+2) \end{aligned}$$

- Divide the numbers
- Find the sign

Find  $(-45) \div (-5)$

$$\begin{aligned} 45 \div 5 &= 9 \\ (-) \div (-) &= (+) \end{aligned}$$

$$(-45) \div (-5) = (+9)$$