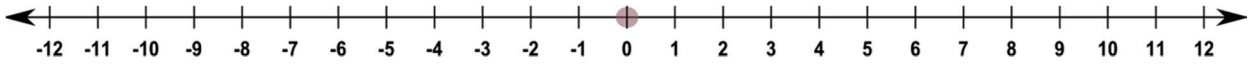
DIRECTED NUMBERS: ×, ÷



When multiplying and dividing integers, use the following rules:
1) When signs are the **same**, the answer will be **positive**
2) When signs are **different**, the answer will be **negative**

Eg. (–4) x (–5) = +20 (signs are the same, positive answer)
Eg. (+4) x (+5) = +20 (signs are the same, positive answer)
Eg. – 4 x 5 = – 20 (signs are different, negative answer)
Eg. 4 x – 5 = – 20 (signs are different, negative answer)

1. Evaluate the following: *(signs are the same)*

a) – 5 x – 5 = _____ b) –30 x – 2 = _____ c) 21 ÷ 3 = _____ d) +5 x (9) = _____ e) 6 x 5 = _____
f) – 6 ÷ – 3 = _____ g) 80 ÷ +5 = _____ h) 0.1 x 0.3 = _____ i) –4 ÷ –1 = _____ j) –3 x – 5 = _____
k) +6 x +5 = _____ l) –9 ÷ (– 3) = _____ m) –7 x (– 8) = _____ n) 8 x (+ 10) = _____ o) 0.6 ÷ 0.2 = _____
p) – 8 ÷ (– 2) = _____ q) –15 x – 8 = _____ r) 132 ÷ (12) = _____ s) 68 ÷ 5 = _____ t) –6 ÷ (– 5) = _____

2. Evaluate the following: *(signs are different)*

a) – 5 x 5 = _____ b) 40 x – 2 = _____ c) 51 ÷ –3 = _____ d) +2 x –9 = _____ e) 4 x –2 = _____
f) – 12 ÷ 4 = _____ g) –65 ÷ 5 = _____ h) –6 x 0.2 = _____ i) – 4 ÷ 12 = _____ j) – 2 x 16 = _____
k) 6 x –12 = _____ l) 38 ÷ (– 2) = _____ m) –7 ½ x 8 = _____ n) 5 x – 21 = _____ o) 0.8 ÷ –2 = _____
p) – 24 ÷ 2 = _____ q) –1.2 x 0.1 = _____ r) 15 ÷ –12 = _____ s) –50 ÷ 25 = _____ t) –1 ÷ 9 = _____

3. Evaluate the following: *(signs are mixed)*

a) – 3 x –8 = _____ b) 20 x – 2.3 = _____ c) 63 ÷ +3 = _____ d) –4 x –4 = _____ e) –1 ½ x –3 = _____
f) – 25 ÷ 5 = _____ g) –13 x –2 = _____ h) –25 ÷ 0.2 = _____ i) – 24 ÷ 8 = _____ j) – ¼ x –88 = _____
k) 4 x –1.5 = _____ l) 11 ÷ (– 22) = _____ m) 4 ½ x 2 = _____ n) 2 x – 5.4 = _____ o) 30 ÷ – 5 = _____
p) – 2.5 ÷ –5 = _____ q) –1.2 x– 5 = _____ r) –99 ÷ –9 = _____ s) 10 ÷ 0.2 = _____ t) –1.5 ÷ 3 = _____

4. Evaluate the following: *(signs are mixed)*

a) 3 x –5 = _____ b) 10 ÷ – 2 = _____ c) 5 ÷ –25 = _____ d) –0.2 x 3 = _____ e) 4 ½ ÷ 4 = _____
f) – 25 ÷ – 5 = _____ g) –6 x –2 = _____ h) 15 ÷ 1.5 = _____ i) – 12 x –8 = _____ j) – 4¼ x –2 = _____
k) – 4 x – 2 = _____ l) 81 ÷ (– 9) = _____ m) 7 ¾ x 4 = _____ n) 22 ÷ – 1.1 = _____ o) –6 x –9 = _____
p) 3.5 ÷ 7 = _____ q) –6.4 ÷ – 8 = _____ r) –55 ÷ 5 = _____ s) 10 ÷ 20 = _____ t) –5.5 ÷ 11 = _____

5. Complete the missing values in the tables below:

a)

x	3	-5	1	2		-4
2						
5						
-1						
4						
-7					**7**	
-3						

b)

÷	10	-2	4	2	-4	-1
4						
-5						
6						
-1						
2						
-2						