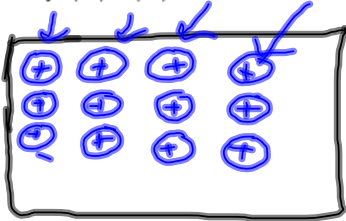


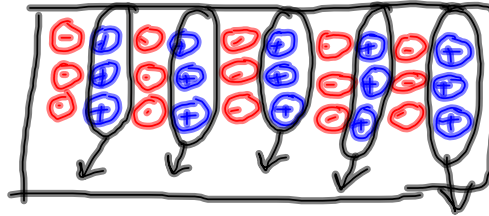
## Unit 2 Final Exam Review

1. Use coloured tiles to find each product.

a)  $(+4) \times (+3)$



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



2. Use a number line to find each product.

a)  $(+8) \times (+2)$



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



3. The ice on Matthew's skating pond melted 2 cm every day for 5 days. Use integers to find the change in the depth of the ice after 5 days.

$(+2) \times (+5) = (+10)$ . There is a 10 cm difference.

4. Find each product.

a)  $(+2)(-9)$

-18

b)  $(-2)(-6)$

+12

c)  $(+7)(-2)$

-14

d)  $(-1)(-1)(-1)$

-1

e)  $(-1)(+5)(-1)(+5)$

+25

5. Find each product.

a)  $(+15) \times (+22)$

b)  $(+20)(-43)$

c)  $(-31)(-52)$

	10	5
20	200	100
2	20	10

$$200 + 100 + 20 + 10 = 330$$

	40	3
20	800	60
0	0	0

$$800 + 60 = 860$$

	50	2
30	1500	60
1	50	2

$$1500 + 60 + 50 + 2 = 1612$$

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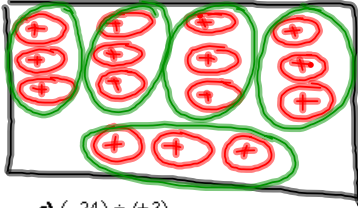
6. Use these integers:  $-1, +6, -8, +3, -2$  to find which two have the greatest product and which two have the least product?

$$(+6)(-8) = -48 \text{ (least)}$$

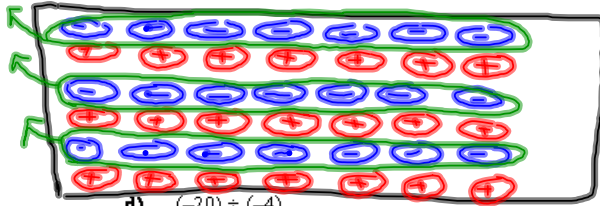
$$(+6)(+3) = +18 \text{ (greatest)}$$

7. Use coloured tiles to find each quotient.

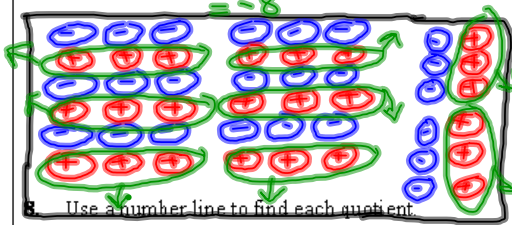
a)  $(+15) \div (+3) = +5$



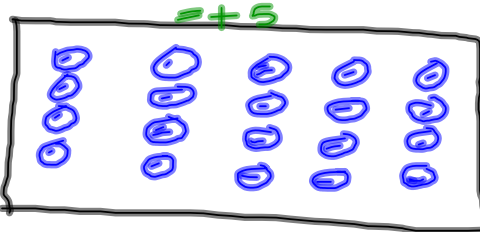
b)  $(+21) \div (-7) = +3$



c)  $(-24) \div (+3) = -8$

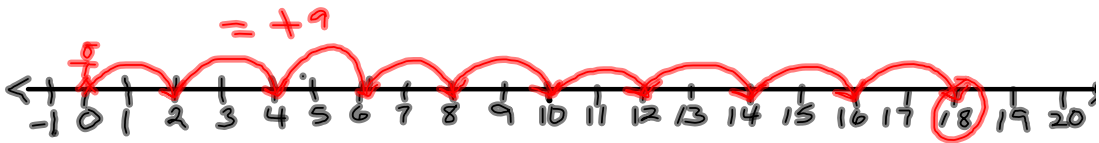


d)  $(-20) \div (-4) = +5$

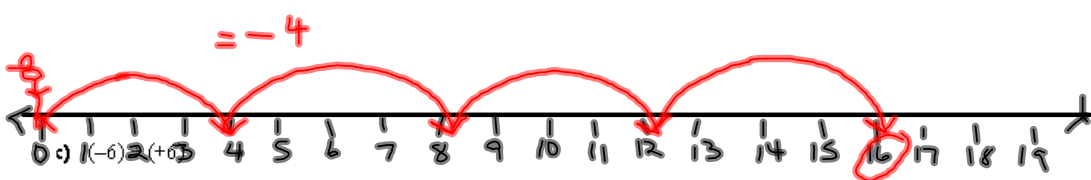


8. Use a number line to find each quotient.

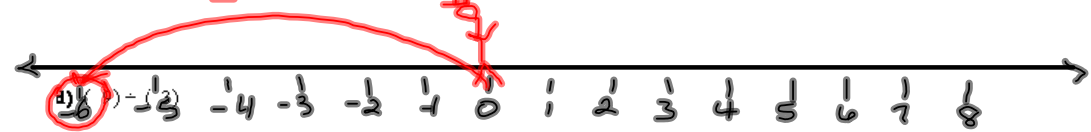
a)  $(+18) \div (+2) = +9$



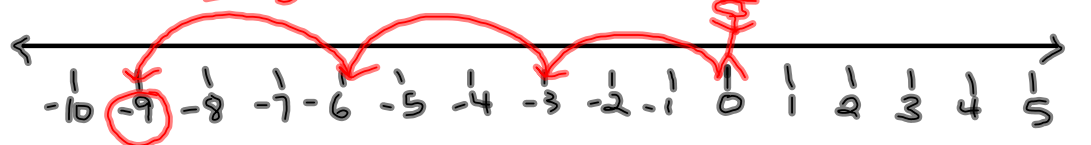
b)  $(+16) \div (-4) = -4$



c)  $(-6) \div (-2) = +3$



d)  $(-9) \div (+3) = -3$



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9. The triple jump is a track and field event where an athlete takes a running start, then completes three jumps in succession. Jane records a distance of 18 m for her triple jump. What was the average distance of each jump?

$$(+18) \div (+3) = (+6)$$

The average distance of each jump is 6m.

10. Divide.

a)  $(-100) \div (-10)$

$$+10$$

b)  $(-72) \div (+9)$

$$-8$$

c)  $(+56) \div (-7)$

$$-8$$

d)  $(-42) \div (-6)$

$$+7$$

e)  $(0) \div (-6)$

$$0$$

f)  $(-9) \div (+9)$

$$-1$$

11. Maya recorded the noon temperature each day for a week.

What was the mean temperature?

~~$-12^{\circ}\text{C}, -8^{\circ}\text{C}, 3^{\circ}\text{C}, 0^{\circ}\text{C}, 1^{\circ}\text{C}, -3^{\circ}\text{C}, 5^{\circ}\text{C}$~~

The average temp. was  $-2^{\circ}\text{C}$ .

$$-12 + -8$$

$$-20 + 3$$

$$-17 + 0$$

$$-17 + 1$$

$$-16 + -3$$

$$-19 + 5$$

$$-14$$

$$-14 \div +7 = -2$$

12. Evaluate. Show all steps.

a)  $(-4)[(-4) + 9]$

$$(-4)(+5)$$

$$= -20$$

b)  $18 \div [(-7) - 2]$

$$+18 \div [(-7) + -2]$$

$$+18 \div -9$$

$$= -2$$

c)  $(-3) + (-14) + (-2)$

$$(-3) + (+7)$$

$$= +4$$

d)  $4(-8) - 9$

$$-32 + -9$$

$$= -41$$

e)  $(-1) + (-20) + 5$

$$(-1) + (-4)$$

$$= -5$$

f)  $(-3)[(-8) - 11]$

$$(-3)[(-8) + (-11)]$$

$$(-3)(-19)$$

$$+57$$

g)  $\frac{(-5)(-9)}{2}$

$$\frac{-14^2}{2} = -7$$

h)  $\frac{24 \div (-6) - 1}{-5}$

$$\frac{-4 - 1}{-5} = \frac{-5}{-5} = 1$$

i)  $\frac{36}{(-5) \times 2 + 4}$

$$\frac{36}{-10 + 4} = \frac{36}{-6} = -6$$

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$$\begin{aligned} \text{d) } & \frac{4(-5) + [28 + (-4)]}{5 \times (-2) + 1} \\ & = \frac{(-20) + (-7)}{-10 + 1} \\ & = \frac{-27}{-9} \\ & = +3 \end{aligned}$$