

**Yr7 Mini Test 1 2018**

This test is Calculator Free

/37

**Marks Available:** 37 marks**Time Allowed:** 30 minutes

## 1. (6 marks)

Show using  $<$  and  $>$  which number is bigger;

a)  $9 \underline{<} 10$  ✓

b)  $-5 \underline{<} 5$  ✓

c)  $-22 \underline{>} -32$  ✓

d)  $0 \underline{>} -4$  ✓

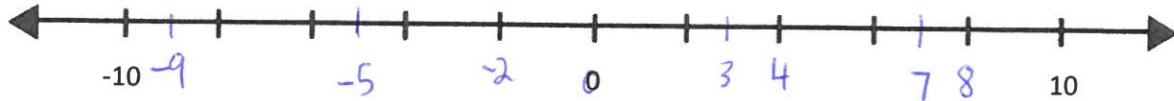
e)  $3 \underline{>} -2$  ✓

f)  $-16 \underline{>} -25$  ✓

## 2. (4 marks)

Put the following integers on the number line

a)  $-5, 4, -2, 7, 0, 8, -9, 3$



( $\frac{1}{2}$  mark each)

3. (6 marks)

Solve the following

a)  $5 + 7 = \underline{12}$

b)  $-6 + 2 = \underline{-4}$

c)  $9 - 12 = \underline{-3}$

d)  $-12 - -6 = \underline{-6}$

e)  $-15 + -3 = \underline{-18}$

f)  $-3 + -2 - -5 = \underline{0}$

4. (2, 2, 3 = 7 marks)

Solve the following

a)  $5 + 4 \times 3 = 5 + 12 \checkmark$

$= 17 \checkmark$

b)  $15 \div 5 \times 7 = 3 \times 7 \checkmark$

$21 \checkmark$

c)  $(6 - -3) \times 4 + 2 = 9 \times 4 \cancel{+} 2 \checkmark$

$36 + 2 \checkmark$

$38 \checkmark$

5. (1 marks)

Insert any brackets to make the following correct

$$(4 + 5) \times 2 - 1 = 17$$

6. (6 marks)

Write whether these equations are TRUE or FALSE

a)  $6 + 7 = 7 + 6$

T

b)  $10 - 4 = 4 - 10$

F

c)  $(6 + 8) \times 5 = 5 \times 6 + 5 \times 8$

T

d)  $14 \div 2 = 2 \div 14$

F

e)  $(7 - 5) - 3 = 7 - (5 - 3)$

F

f)  $(3 + 12) + 2 = 3 + (12 + 2)$

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7. (1 mark)

CIRCLE which of the following best describe  $(5 + 4) + 6 = (6 + 4) + 5$

a) Commutative Law

b) Distributive Law

c) Associative Law

d) These laws don't apply to subtraction

8. (2 marks)

Circle which of the following is the best way to multiply  $138 \times 42$  numbers AND explain why you chose that?

140 × 40

$(138 \times 40) + (138 \times 2)$



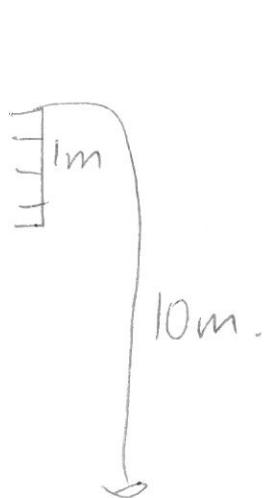
example.



Use the distributive law to break 42 into tens and ones

9. (2 marks)

A farmer lowers a bucket from the top of a 1m high well using a 10m rope attached to the handle. If she lowers the whole length of rope, how far below the ground does the bucket reach?



✓ ✓

$$1 - 10 = -9 \text{ m}$$

below  
ground!

10. (2 marks)

The temperature at sunrise in Russia was  $-5^{\circ}\text{C}$ . During the day the temperature rose  $9^{\circ}\text{C}$  and then dropped by  $12^{\circ}\text{C}$  at 7pm. What is the temperature at 7pm?

$$-5 + 9 - 12$$

$$= -8^{\circ}\text{C}$$

$-2$  lose half mark if they don't write

$^{\circ}\text{C}$