

Name: Key
Date: 1 / 1 / 2022

Revision (2)

Objective/s: Be able to

Multiply and divide whole numbers by 10 or 100 or 1000.

Order and compare negative numbers using number line or temperature scale.

Calculate a rise or fall in temperature.

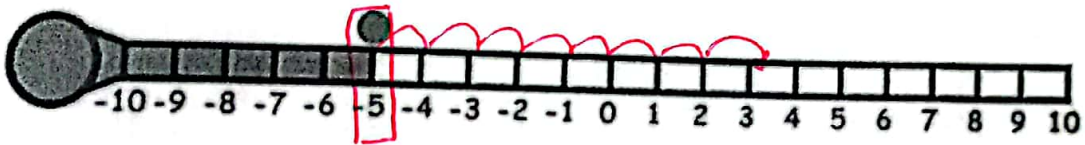
Add and subtract up to four digits numbers.

Multiply 2 digit numbers by one digit. And 2 digits by 2 digits.

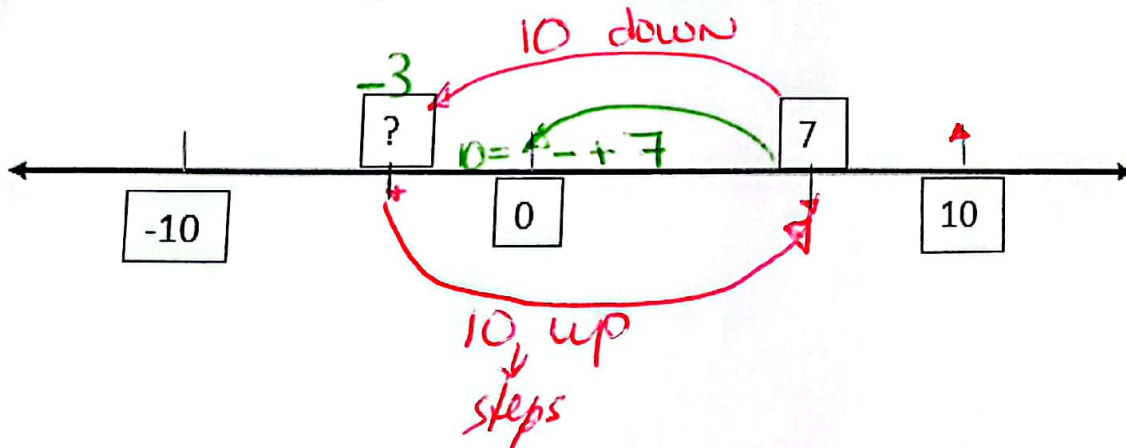
Double and half 4 digit numbers.

- 1) What will the temperature be if it is 8°C more than the temperature shown below?

3 $^{\circ}\text{C}$



- 2) The difference between the two numbers in the boxes is 10. What number goes on the empty box?

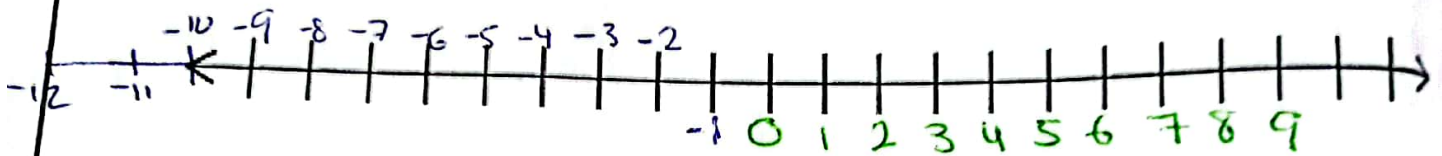


3) Order the temperatures from warmest to coldest.

-18°C / -3°C / 9°C / 13°C / 5°C / -1°C

13°C 9°C 5°C -1°C -3°C -18°C

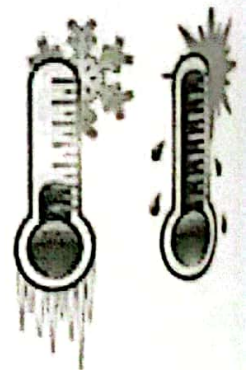
4) Use the number line below to help you solve the following:



Use Risen/ Fell

$+2$ $+9$ a) The temperature was 9°C , the New temperature is -12°C
i) The temperature has fell by 21 $^{\circ}\text{C}$.

$+14$ b) The temperature was -14°C , the new temperature is 4°C
ii) The temperature has Risen by 18 $^{\circ}\text{C}$.



Math gives us hope that every problem has a solution

5) Find the following:

Line up the digits properly

a) The sum of 4098 and 2187

$$\begin{array}{r} 4098 + 2187 \\ \hline 4100 + 2185 = 6285 \end{array}$$

OR:

$$\begin{array}{r} 4098 \\ + 2187 \\ \hline 6285 \end{array}$$

b) The difference between 1097 and 3456

$$\begin{array}{r} 3456 - 1097 \\ \hline 3459 - 1100 = 2359 \end{array}$$

OR

$$\begin{array}{r} 3456 \\ - 1097 \\ \hline 2359 \end{array}$$

c) The product of 98 and 7

$$\begin{array}{r} 98 \\ \times 7 \\ \hline 686 \end{array}$$

d) The product of 76 and 89

$$\begin{array}{r} 76 \\ \times 89 \\ \hline 684 \\ + 6080 \\ \hline 6764 \end{array}$$

OR

$$\begin{array}{r} 76 \\ \times 89 \\ \hline 684 \\ + 6080 \\ \hline 6764 \end{array}$$

(3) add

e) The product of 58 and 79

$$\begin{array}{r} 58 \\ \times 79 \\ \hline 522 \\ + 4060 \\ \hline 4582 \end{array}$$

f) The product of 69 and 74

$$\begin{array}{r} 69 \\ \times 74 \\ \hline 276 \\ + 4830 \\ \hline 5106 \end{array}$$

6) Complete to make the following statements true.

a) $2030 \times \boxed{100} = \boxed{203000}$ *get larger*

b) $8900 \div \boxed{100} = 89$ *smaller*

c) $6908 \times \boxed{1000} = 6908000$

d) $54000 \div \boxed{100} = 540$

e) $621000 \div 100 = \boxed{6210}$

f) $150000 \div 1000 = \boxed{150}$

g) *Total*
 $\boxed{907} - 360 = 547$
 $360 + 547$

h) $\boxed{3000} \div 20 = \boxed{150}$

i) $\boxed{8100} \div 90 = \boxed{90}$

j) $\boxed{80} \times \boxed{700} = \boxed{56000}$ *drop zeros*

k) $\boxed{2960} + 2045 = \underline{\underline{5005}}$ *Total*

$$\begin{array}{r} 45005 \\ - 2045 \\ \hline 2960 \end{array}$$

l) $\boxed{40} \times \boxed{2000} = \boxed{80000}$

m) Double 459 is

918

n) Half 756 is

378

d

$$400 + 50 + 9$$

$$800 + 100 + 18$$

h

$$700 + 50 + 6$$

$$350 + 25 + 3$$

o) 66 Is Half of 132

$$100 + 30 + 2$$

$$50 + 15 + 1$$

p) 864 Is double 432

d

$$400 + 30 + 2$$

$$800 + 60 + 4$$

r)

1	7	8	5
5	4	0	8
7 1 9 3			

s)

8	2	1	8	4
3	8	9	3	
5 3 9 1				

t)

2	7	6	9
2	4	7	6
3 0 7 6			

OR

2	7	6	4
3	0	5	6

- 4
- 8
- 12
- 16
- 20
- 24
- 28
- 32
- 36

7) List:

a) 4 factors of 36 *any four*

1, 36 2, 18 3, 12 4, 9

b) Three multiples of 9 more than 20 and less than 89.

any three

27 36 45 , 54 , 63 , 72,
81

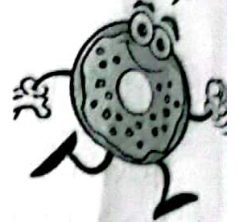
8) Solve the following:

During week days a doughnut shop sells 280 doughnuts per day, and on weekends they sell 336 doughnuts per day.

a) How many donuts were sold during the week days (5 days per week)?

$$\begin{array}{r} 280 \\ \times 5 \\ \hline 1400 \end{array}$$

1400 doughnuts sold during weekdays



b) How many doughnuts were sold during the weekend?

$$\begin{array}{r} 336 \\ \times 2 \\ \hline 672 \end{array}$$

672 doughnuts sold during weekends

c) What is the total number of doughnuts sold on both week days and weekends? (in one week). (Translate English to math)

$$\begin{array}{r} 1400 \\ + 672 \\ \hline 2072 \end{array}$$

2072 doughnuts sold in total

d) What is the difference between the doughnuts sold on week days and on the weekends (in one week)?

672

$$\begin{array}{r} 1400 \\ - 672 \\ \hline 728 \end{array}$$

728 doughnuts the difference

e) Donuts are sold in boxes; each box has 24 pieces.

How many pieces are there in 35 boxes?



h 24×35 d
 $12 \times 70 = 840$

OR

① $\begin{array}{r} 24 \\ \times 35 \\ \hline 120 \\ + 720 \\ \hline 840 \end{array}$

pieces in 35 boxes

Optional: (not included in the exam)

1) In a traffic survey, Class B counts how many cars passed by during a certain hour. They counted the following 6 red cars and 16 white cars. There were half as many blue cars as white. And, there were three times more black cars than blue.

How many black cars passed by?

R	W	Blue	Black
6	16	half (W) half (16)	3 Times Blue
		8	3 x 8 24

2) Solve the following using mental strategies only:

a) $1056 + 2998 =$
 $\begin{array}{r} 1056 \\ + 2998 \\ \hline 4054 \end{array}$

b) $3216 - 1997 =$
 $\begin{array}{r} 3216 \\ - 1997 \\ \hline 1219 \end{array}$

c) $45 \times 14 =$
 d \swarrow \searrow h
 $90 \times 7 = 630$

d) $35 \times 35 =$
 $\begin{array}{r} 40 \times 30 = 1200 \\ 5 \times 5 = 25 \\ \hline 1225 \end{array}$

e) $54 \times 11 =$
 $\begin{array}{r} 54 \\ \times 11 \\ \hline 594 \end{array}$

Steps for doubling or halving:

- 1) partition each number.
- 2) Double or half each digit
- 3) Add up the dig

Example:

Double 586

- 1) $500 + 80 + 6$
- 2) $1000 + 160 + 12$
- 3) 1172

Half 586

- 1) $500 + 80 + 6$
- 2) $250 + 40 + 3$
- 3) 293

9) Complete the following boxes with the halves and doubles of the numbers given below.

Halve	Number	Double
$150 + 25 + 4$ 179	358 $300 + 50 + 8$	$600 + 100 + 16$ 716
$500 + 100 + 35 + 7$ 637	1274 $1000 + 200 + 70 + 4$	$2000 + 400 + 140 + 8$ 2548
5137 $5000 + 100 + 30 + 7$	double $10,000 + 200 + 60 + 14$ $10,274$	double $20,000 + 400 + 120 + 28$ $20,548$
$2000 + 150 + 5 + 1$ 2156	$4000 + 300 + 10 + 2$ 4312	8624 $8,000 + 600 + 20 + 4$
$\frac{3300}{33}$	6600	13200
2200	4400	8800 half 88 then drop zeros

10) 300 people were on a plane when it took off from Dubai. Half of

the people got off at Paris and 100 people got off at Rome.

How many people are left on the plane?

half of 300 = 150 got off @ Paris + 100 got off @ Rome

150 + 100 = 250 people got off at Paris + Rome

300 - 250 = 50 people left on the plane.