Maths Department

Pre-test Practice Mk2

Quick arithmetic, mean/median/range, areas and capacities.

Name:_____

Question 1

Which pair of numbers does **not** have a difference of 27?

27 and 54	-2 and 25	0 and 27	126 and 99	2 and 25

Question 2

Which pair of numbers does **not** have a difference of 12?

-12 and -24	2 and -14	-5 and -17	98 and 110	1.5 and 13.5

Question 3

Which pair of numbers does not have a difference of 22.5?

-2 and 20.5	-2 and -22.5	-2 and -24.5	-20 and -42.5	10 and 32.5

Question 4

Find the mean average of these numbers. It shouldn't take long – just add them up then divide by how many numbers there were.

27   37   24   36

23	38	31	28	36

Question 5

Find the mean average of these numbers.

125   135   95   180   75

122	112	132	120.5	120

Question 6

Find the mean average of these numbers.

76   81   99   110   104

91	92	93	94	95

Question 7

If eight rowers have a mean mass of 72 kg, what is the total mass of all of them?

9 kg	80 kg	576 kg	720 kg	562 kg

Question 8

If 5 parcels have a mean mass of 2.1 kg each, what is the total mass of all five of them?

10.5 kg	1.05 kg	105 kg	10.1 kg	0.42 kg

Question 9

Six bamboo canes have an average length of 5.3 metres. What is the total length of all of them end to end?

3.18 m	30.3 m	30 m	32.8 m	31.8 m

Question 10

What is the **median** temperature in the following data set?

12˚ 8˚ 8˚ 13˚ 7˚ 15˚ 9˚

7˚	8˚	9˚	9.5˚	72˚

Question 11

What is the **range** of the temperatures in the following data set?

12˚ 8˚ 8˚ 13˚ 7˚ 15˚ 9˚

7˚	12˚	9˚	8˚	21˚

Question 12

What is the **median** length of the following data set?

2.4 m 8.6m 5.2m 6.8 m 5.8 m 5.6 m

5.7 m	6.0 m	6.2 m	5.5 m	5.0 m

Question 13

Ted travels at an average speed of 85.1 km/hr for ten hours. How far does Ted go?

850 km	851 km	8.51 km	85.1 km	You can't tell from the information

Question 14

Jess travels at an average speed of 48 km/hr for 6 hours. How far does Jess go?

280 km	282 km	284 km	286 km	288 km

Question 15

Sidney the Snail slithers at an average speed of 5.3 metres per hour. How far does Sidney go in 8 hours of constant slithering?
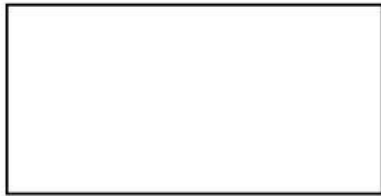
42.4 m	43 m	17.4 m	40.3 m	424 m

Question 16

10 metres

5 metres

A patio is 10 m by 5 m.

It is to be paved with slabs 50 cm by 50 cm.

How many stones are needed?

50 m²	30 metres	50 stones	30 stones	200 stones

Question 17

10 metres

2 metres

A path is 10 m by 2 m.

It is to be paved with stones that are

25 cm by 25 cm.

How many stones are needed?

3200 stones	320 stones	40 stones	80 stones	800 stones

Question 18

5 metres

4 metres

A patio measures 5 m by 4 m.

It is covered in slabs that are one metre square.

Each slab costs £12.00

What is the total cost of paving the patio?

£24	£240	20 m²	240 m²	20 stones

Question 19

A container measuring 5 litres of water is used to fill bottles that contain 250 ml each. How many bottles can be filled?
Hint: Consider what fraction of a litre 250 ml is.

| 5 bottles | 10 bottles | 15 bottles | 20 bottles | 25 bottles |

Question 20

Another container of water holds 8 litres. It is used to fill bottles measuring 500 ml each. Each small bottle is sold for £2.50. How much money is made if all the small bottles are sold?

| £400 | £40 | £20 | £8 | £80 |