

Dear People – please make sure you do the speed test – it will really help you in your calculations!

After that, we are going to do a little extra ‘mean’ calculation to consolidate what you learned last week.

- remember that finding the ‘mean’ is finding the ‘average’.
The ‘average is a ‘fair share’.

THE RECIPE FOR FINDING THE MEAN :

1. Add all the numbers (sets or ‘items’) together to find a TOTAL,
2. Divide the TOTAL by the amount of sets (or items) there are!

**.Your 8 x
reference
table**

(although you'll
be faster
learning these
facts off by
heart!)

1 x 8 = 8
2 x 8 = 16
3 x 8 = 24
4 x 8 = 32
5 x 8 = 40
6 x 8 = 48
7 x 8 = 56
8 x 8 = 64
9 x 8 = 72
10 x 8 = 80
11 x 8 = 88
12 x 8 = 96
15 x 8 = 120
20 x 8 = 160

8 x 4 =
11 x 8 =
8 x 3 =
1 x 8
8 x 5 =
12 x 8 =
7 x 8 =
10 x 8 =
3 x 8 =
8 x 6 =
8 x 1 =
0 x 8 =
8 x 11 =
20 x 8 =
8 x 7 =
8 x 10 =
8 x 15 =
15 x 8 =
8 x 8 =
8 x 0 =
8 x 2 =
6 x 8 =
8 x 9 =

8 x 11 =
8 x 2 =
7 x 8 =
8 x 0 =
8 x 3 =
8 x 20 =
1 x 8 =
2 x 8 =
8 x 8 =
4 x 8 =
12 x 8 =
0 x 8
8 x 15 =
8 x 5 =
5 x 8 =
11 x 8 =
6 x 8 =
9 x 8 =
8 x 10 =
8 x 1 =
8 x 7 =
20 x 8 =
8 x 9 =

8 x 20 =
8 x 2 =
8 x 15 =
8 x 4 =
8 x 8 =
8 x 0 =
1 x 8 =
8 x 12 =
3 x 8 =
4 x 8 =
5 x 8 =
7 x 8 =
8 x 11 =
8 x 10 =
10 x 8 =
11 x 8 =
0 x 8 =
15 x 8 =
20 x 8 =
8 x 8 =
8 x 7 =
8 x 3 =
8 x 9 =

8 x 5 =
10 x 8 =
2 x 8 =
6 x 8 =
8 x 10 =
8 x 9 =
1 x 8 =
8 x 15 =
3 x 8 =
8 x 7 =
9 x 8 =
8 x 6 =
12 x 8 =
8 x 12 =
8 x 1 =
8 x 11 =
5 x 8 =
15 x 8 =
8 x 6 =
8 x 8 =
20 x 8 =
8 x 4 =
11 x 8 =

WARM- UP:
**Ll: can I improve
my recall of 8x
tables facts?**

Print this sheet if you
can.

Otherwise, get
someone to call out
each equation so
you can write the
answer.

**Same deal as with
the 6x tables speed
test:**

1. Set a timer for 2
minutes and do
as much as you
can
2. Check your
accuracy (mark
your columns!)
3. **Aim for
improvement
with each
column you do.**

A

Find the mean for each set of data.

- 1 Football matches 8
Total goals 40
Mean goals per game?
- 2 Dogs 3
Total weight 21 kg
Mean weight per dog?
- 3 Restaurant tables 10
Diners 25
Mean diners per table?
- 4 Library users 12
Books borrowed 36
Mean books per person?
- 5 Swimming sessions 5
Total lengths 100
- 6 Darts 3
Total score 51
- 7 Dice 2
Total score 7
- 8 Tests 4
Total marks 320%

Here you have already been given the total, so you don't need to do any adding up!

To find the mean, you have to divide how many sets have given the total.

So, **in question 1**, the **total** of goals scored in 8 football matches is 40.
To find the mean (average), you have to take the **total** of goals and divide it by the **number of matches** played to score those goals.

The sum to do is 40 (goals) divided by 8 (matches).

Answer?

In question 2, the **total** of the dogs' weight is 21kg.
To find the mean (average), you have to take the **total** of the weights and divide it by the **how many dogs** were weighed to get that total.

The sum to do is 21 (kg) divided by 3 (dogs).

Answer?

Carry on!

B

Find the mean.

- 1 Flights 5
Total distance
12 000 km
- 2 Cars 100
Passengers 280
- 3 Boxes of apples 8
Total apples 1000

Find the total.

- 4 Car journeys 12
Mean distance
45 miles
- 5 Buses 2
Mean passengers 56.5
- 6 Trees 3
Mean number of
apples 269

Find the number of items.

- 7 Distance cycled (km)
Total 257 Mean 25.7
- 8 Train passengers
Total 720 Mean 180
- 9 Bags of apples
Total 150 Mean 7.5

Here there's nothing you haven't already done: just bigger numbers!
Remember, to find the mean, you have to divide how many sets have given the **total**.

So, **in question 1**, the **total** of distance flown is 12,000km, flown during 5 flights. To find the mean (average), you have to take the **total** of km and divide it by the **number of flights** flown to add them all up.

The sum to do is 12,000 (km) divided by 5 (flights).

Answer?

In question 2, the **total** amount of passengers are 280, carried by 100 cars. To find the mean (average), you have to take the **total** of the passengers and divide it by the **how many cars carried them to get that total**.

The sum to do is 280(passengers) divided by 100 (cars).

Answer?

Watch out for question 4! (you'll need to use inverse operations (ie – go backwards!))

C

Find the mean.

- 1 Adults 4
Total weight 263.2 kg
- 2 Pages read 15
Time 36 minutes
- 3 Shop customers 20
Total takings £355

Find the total.

- 4 Cans 500
Mean weight 435 g
- 5 Pages read 26
Mean time 3 mins. 30 secs.
- 6 Customers 12
Mean takings £4.60

Find the number of items.

- 7 Weight of fish
Total 1.8 kg
Mean 225 g
- 8 Time per page (minutes)
Total 57 Mean 1.9
- 9 Takings per customer
Total £2.85
Mean 57p

EXTENSION

Be careful!