National Numeracy Tests

READING

8ER16

First name _____

Last name _____

School _____

Class _____

Date of birth ○○ ○○ ○○○○

Date of test ○○ ○○ 2016

Total score ○ (maximum 20)

139145

Llywodraeth Cymru
Welsh Government

1 To answer this question you will need to use **all** the information on the next page.

The four dancers are on the special floor.

For how many **minutes** do they need to dance to charge the phone?

You **must** show how you work it out.

minutes

5m

Suppose the dancers could **double** the number of joules per second.

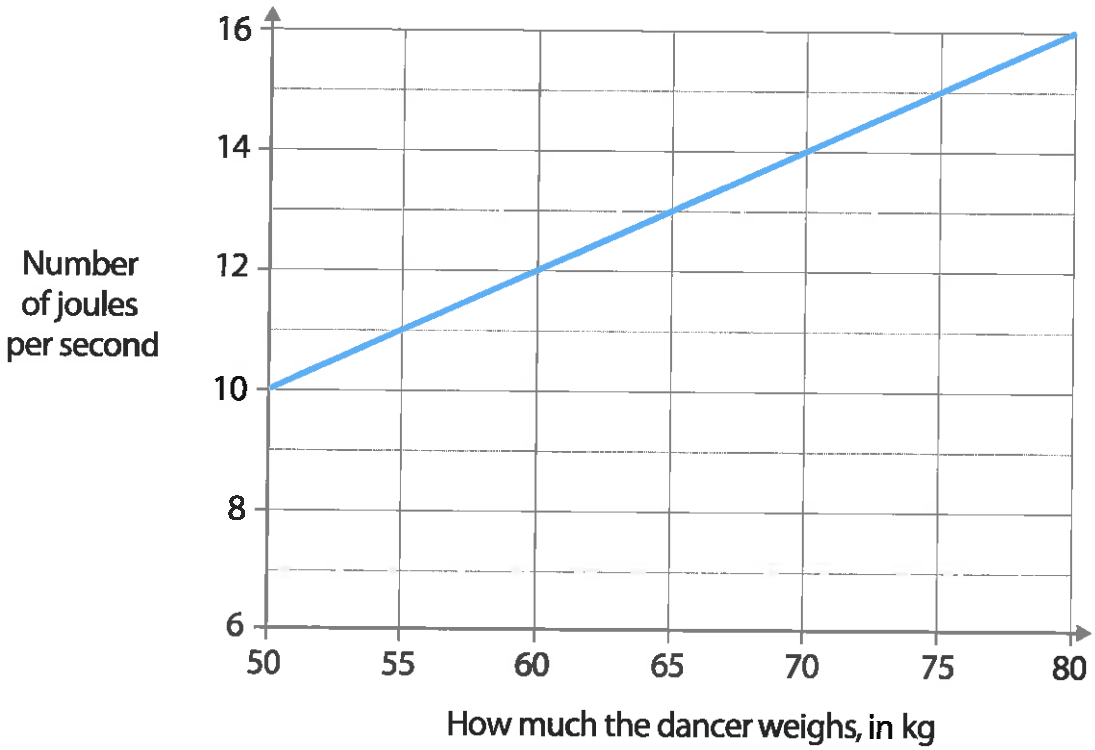
Then how many minutes would it take them to charge the phone?

minutes

1m

What each dancer weighs:

How many joules a dancer generates in one second



The phone:

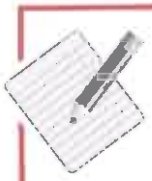
The phone needs 12 000 joules to charge.

TOTAL
6m

2 The big parcel weighs 4 times as much as the small parcel.

Together they weigh 1500 grams.

How much does each parcel weigh?



grams and grams

2m

3 Sahar writes party invitations. She makes a mistake!

On 11th July 2016 she will be 6 years old.

How old would she be if she lived until 11th July 20016?

years old

2m

4 Multiples of 5 have a final digit that is either 0 or 5

Gareth thinks of a multiple of 4

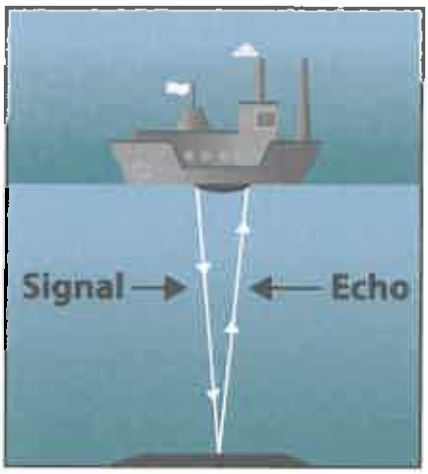
What could its final digit be?

Circle all the possible answers.

0 1 2 3 4 5 6 7 8 9

1m

5 Scientists use sonar to find how deep oceans are.



Scientists send a sonar signal from the boat.

14 seconds later they hear the echo.

In water, sonar signals travel about 1500 **metres** every second.

How many **kilometres** deep is this part of the ocean?

kilometres

2m

TOTAL

7m

6 This is a gingerbread house.

The roof of this 'house' is made from **two rectangles** of biscuit, each 20cm by 18cm.

On **each cm²** of the roof there will be 1 small sweet.

There are 75 small sweets in one pack.

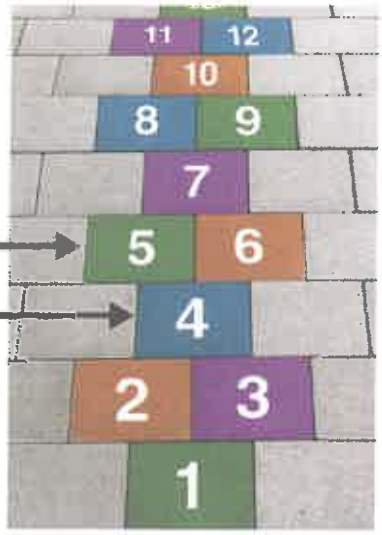
How many packs are needed for the roof?

You **must** show how you work it out.

packs

3m

7 Hopscotch pattern:



Some numbers are side by side. →

Some numbers are on their own. →

The pattern continues.

Work out which numbers between 110 and 150 are blue **and** on their own.

Show how you work it out.

4m

TOTAL

7m

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