

Fractions, decimals and percentages domino game



Family Maths
Toolkit

To play this game, you need to cut out all the attached 'dominoes' and mix them up. (Be careful not to lose any or the game will not work.)

Deal out 5 'dominoes' each and choose who starts the game. The starter lays one domino down face up.

Anyone who has a question or answer which matches either end can lay their domino down end to end:

3	15% of 70
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10.5	$\frac{4}{5}$ of 20
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15% of 70 is 10.5 so they go together.

If a player cannot go, they must take another domino.
First player to use all their dominoes is the winner.

Helpful hints: This game is better with 3+ players. If one or two of you are playing, share more cards out to start with.

11	$\frac{1}{10}$ of 10
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1	60% of 120
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72	$\frac{3}{8}$ of 72
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27	$0.125 \times$ 24
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3	15% of 70
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10.5	$\frac{4}{5}$ of 20
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16	0.4×150
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60	$55\% \text{ of } 100$
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55	$\frac{3}{8} \text{ of } 88$
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33	0.2×33
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6.6	$20\% \text{ of } 250$
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50	$\frac{2}{3} \text{ of } 72$
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48	$\frac{2}{5} \text{ of } 225$
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90	$\frac{3}{5} \text{ of } 20$
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12	0.5×10
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5	$20\% \text{ of } 20$
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4	$\frac{1}{4} \text{ of } 24$
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6	0.1×20
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2	$75\% \text{ of } 16$
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12	$\frac{1}{5} \text{ of } 35$
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7	0.75×100
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75	$30\% \text{ of } 30$
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9	$\frac{1}{3} \text{ of } 90$
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30	0.2×50
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10	20% of 24
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4.8	$\frac{2}{5}$ of 45
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18	0.9 × 90
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81	20% of 75
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15	$\frac{3}{4}$ of 32
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24	$\frac{1}{3}$ of 57
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19	40% of 72
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28.8	$\frac{1}{8}$ of 88
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Family comments:

Child comments:



Curriculum Link

Recall and use simple fractions, decimals and percentages.

**How many skips do you think
you can complete in 15 seconds?
Write down your estimate.**

Ask your family how many they estimate they could complete. Write these down.

Find a timer or watch and time each person – how close were your estimates?

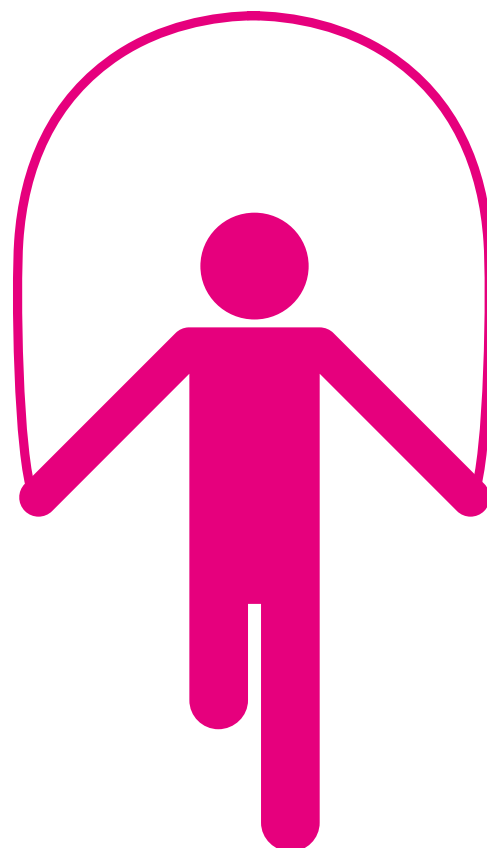
What was the mean (average) of the estimates?

What was the mean of the actual number of skips?

How could you record this? What have you found out?

Do you think you could do four times this many in a minute? Would you slow down as you get tired?

Helpful hint: You can complete this activity with or without a skipping rope.



Family comments:

Child comments:



Curriculum Link

Calculate the mean as an average.

Juggling rings

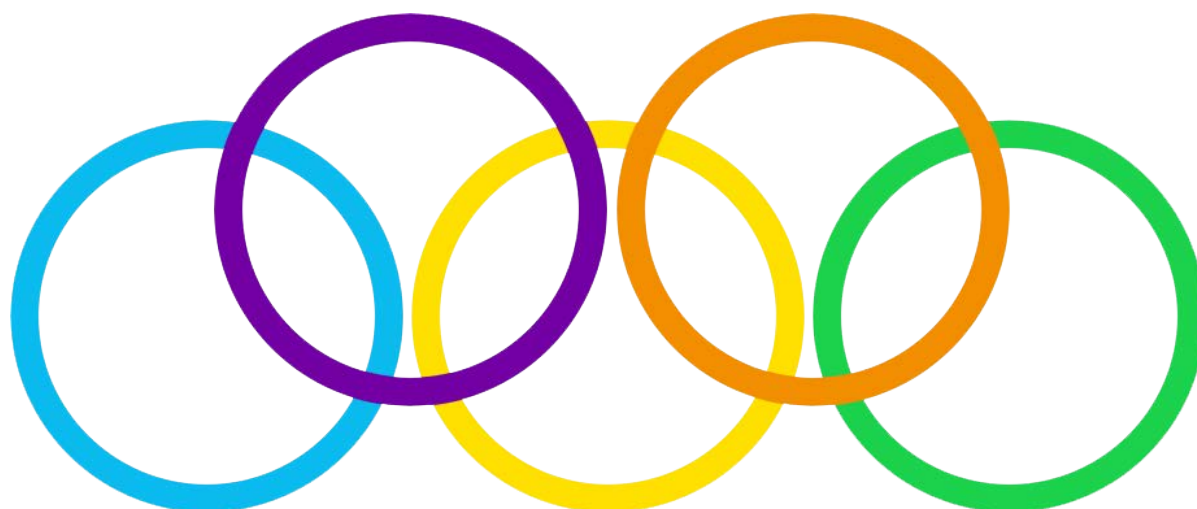


Family Maths
Toolkit

A circus clown has a set of five juggling rings in different colours. Before he starts his act he lays them out so they overlap.

This creates 9 separate areas within the rings. Can you place all the numbers from 2-10 in each of these areas so that each complete circle adds up to an even number?

There is more than one answer so challenge all your family!



Family comments:

Child comments:



Curriculum Link

Use mental calculations to solve problems; working systematically.

Supermarket offers

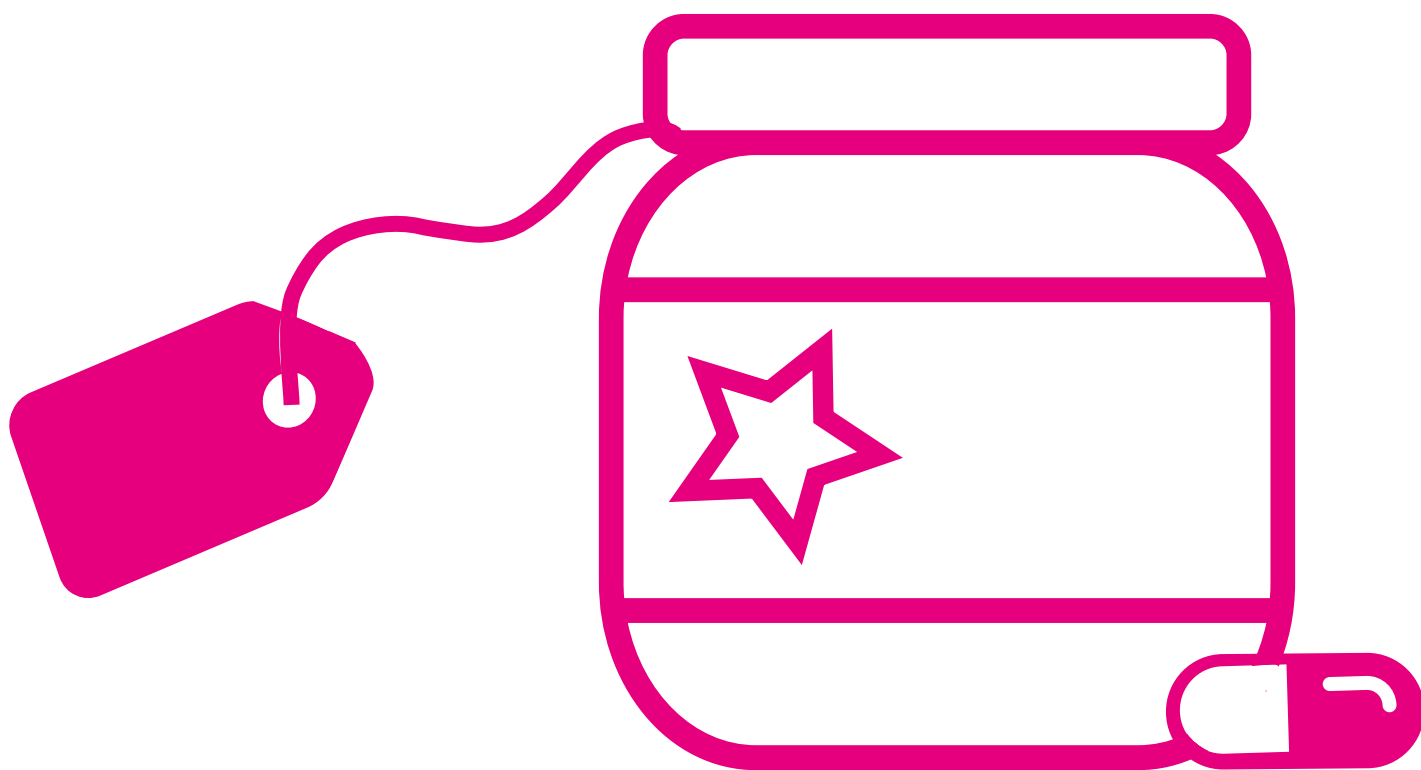


Family Maths
Toolkit

A supermarket displayed these special offers:

- A packet of vitamin tablets (90) were sold '3 for the price of 2' with each packet starting at £1.80.
- A packet of the same vitamin tablets (30) were '3 for the price of 2' with each packet starting at 70p.

Which is the best deal?



Tins of soup were sold at 59p each or
'Buy one, get one free' (BOGOF).

The same tins were sold as a pack of 4 for £1.20.

Which is the cheapest way to buy this soup?

Can you find a special offer in your family shopping
- do you think it is a good deal? Why?

Biscuits were sold in different ways -

- £2.48 for a variety pack (62 biscuits)
- A single packet of biscuits (20) was 82p
- Or '3 for the price of 2' were £1.35 each (10 biscuits in a pack)
- 'Buy one, get one free' were packs of 15 biscuits for 90p

Challenge -
Which is the
cheapest way to buy
these biscuits?



Family comments:

Child comments:



Curriculum Link

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Multiply and divide
using whole numbers
and up to 2 decimal
places in the context
of money.