

# Unit fractions



Problem solving and reasoning cards:

Spot the mistake. Explain your answer.

A



1

2

B



1

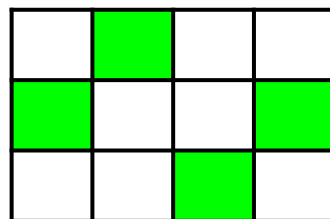
4

C



1

3



The shape above shows  $\frac{1}{4}$ .

True or false?

Explain your answer.



I am thinking of a number. One third of my number is 8.

Is Dom's number greater than  $7 \times 3$ ?

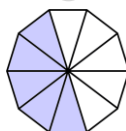
Explain your answer.

Can you create your own number problems?



All the shapes below represent a half.

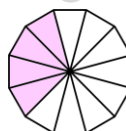
A



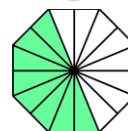
B



C



D



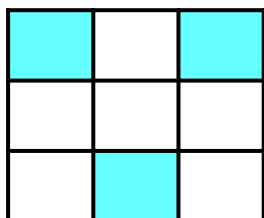
Is Jess correct?

Explain your answer.

Spot the mistake.

$$\frac{1}{4}$$

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Half of 24 is greater than  $\frac{1}{3}$  of 27.

True or false?

Explain your answer.

Create your own sentences:

Half of \_\_\_\_ is less than  $\frac{1}{3}$  of \_\_\_\_.

Explain the mistake and how it could be corrected.

# Unit fractions



Problem solving and reasoning cards:

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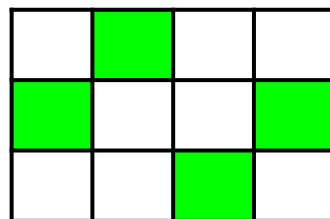
C



1

3

B and C are incorrect. B shows  $\frac{1}{3}$  and C shows  $\frac{1}{4}$ .



The shape above shows  $\frac{1}{4}$ .

True or false?

Explain your answer.

False. The shape shows  $\frac{1}{3}$ .

There are 12 squares in total, 4 are shaded.

This means  $\frac{1}{3}$  is shaded.

Dom's number is greater than 7 x 3.

I am thinking of a number. One third of my number is 8.

Is Dom's number greater than  $7 \times 3$ ?

Explain your answer.

Yes, Dom's number is greater than  $7 \times 3$ .

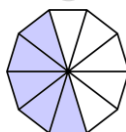
Dom's number is 24.

$7 \times 3 = 21$ , therefore Dom's number is greater than  $7 \times 3$ .



All the shapes below represent a half.

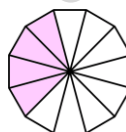
A



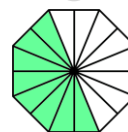
B



C



D



Is Jess correct?

Explain your answer.

Jess is incorrect.

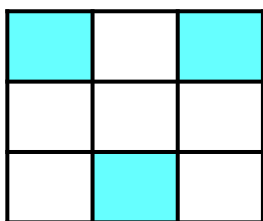
C shows one third (not a half).

Spot the mistake.

1

4

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Explain the mistake and how it could be corrected.

A quarter is not greater than a third.  $\frac{1}{4} < \frac{1}{3}$ .

(To correct the mistake children may change the inequality sign to  $<$ , change the number of squares shaded or change the fraction denominator.)



Half of 24 is greater than  $\frac{1}{3}$  of 27.

True or false? Explain your answer.

True. Half of 24 = 12.  $\frac{1}{3}$  of 27 = 9.

Therefore half of 24 is greater than  $\frac{1}{3}$  of 27.

Create your own sentences: Any suitable answer.

Half of \_\_\_\_ is less than  $\frac{1}{3}$  of \_\_\_\_.