

Lesson 2

Tuesday 23rd June 2020

L.O - I am learning to answer reasoning and problem solving fractions questions.

Try your best to answer as many questions as you can. 😊

Reasoning Questions

Key vocabulary: fraction, equivalent, numerator, denominator,

Your answer

2

Sarah has a packet of balloons.

[2010]

The contents of the packet are

5 red balloons

5 blue balloons

10 yellow balloons

Sarah says,

'One-quarter of the balloons are red'.



Is Sarah correct?
Circle **Yes** or **No**.

 Yes / No

Explain how you know.

13


[2011]



Holly says,

'One-third of this shape is shaded'.

Is Holly correct?
Circle **Yes** or **No**.

 Yes / No

Explain how you know.

Week 8_Maths_Lesson 2

3

Mo, Eva and Ron are trying to simplify $\frac{5}{20}$



Mo

I can't simplify this because one number is odd and the other is even.



Ron

I can simplify any fraction.



Eva

I can't simplify this because only one number can be halved.

Do you fully agree, partly agree or completely disagree with each person?

Scott scored 20 out of 24 in a game.

Dani scored 5 out of 7

Compare their scores.

Explain who you think did best and why.

Tommy is simplifying $4 \frac{12}{16}$

$$4 \frac{12}{16} = 4 \frac{3}{4}$$

Explain Tommy's mistake.

Teddy is comparing $\frac{3}{8}$ and $\frac{5}{12}$



To find the lowest common multiple, I will multiply 8 and 12 together.

$$8 \times 12 = 96$$

I will use a common denominator of 96

Is Teddy correct?
Explain why.

4 Ron and Rosie are practising penalties.

Ron scored 7 out of 10.

Rosie scored 23 out of 30

I scored more than you, so I should take penalties for the school team.



I did not miss as many as you, so I should take the penalties.

Compare fractions to explain who should take penalties for the school team.

Problem Solving

6 Annie, Tommy and Kim are making flags for the school fair.

Annie has completed $3\frac{3}{4}$ flags, Tommy has completed $3\frac{2}{3}$ flags and Kim has completed $\frac{18}{5}$ flags.

Who has completed the most flags?

5

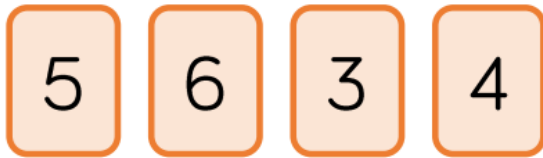


Alex has 288 m of fence to paint.

She paints $\frac{3}{12}$ of the whole fence on Monday. She then paints $\frac{1}{2}$ of what is left on Tuesday.

How much fence does she have left to paint?

Use the digit cards to complete the statements.



$$\frac{\square}{4} > \frac{\square}{6} \quad \frac{\square}{4} < \frac{6}{\square}$$

Find three examples of ways you could complete the statement.

$$\frac{\square}{\square} < \frac{\square}{\square}$$

Can one of your ways include an improper fraction?

Week 8_Maths_Lesson 2

Two different pieces of wood have had a fraction chopped off.

Here are the pieces now, with the fraction that is left.



Which piece of wood was the longest to begin with?

Explain your answer.

Can you explain your method?

