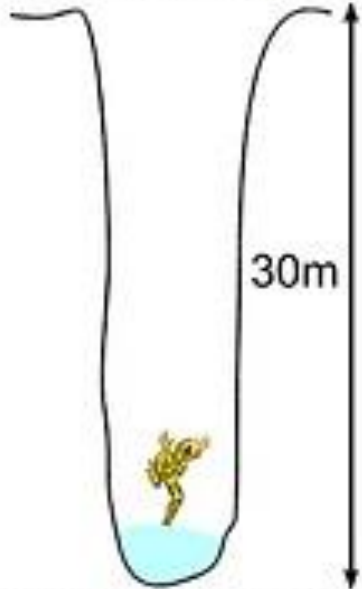# Maths Day 3 - Starter

The Jumping Frog ☆ 6

A frog has fallen into a pit that is 30m deep.

30m

Each day the frog climbs 3m, but falls back 2m at night. How many days does it take for him to escape?

Think about how best to lay this out? How much progress does the frog make each day?

Maths Day 3 – Divide Fractions by Integers

Video Link: https://vimeo.com/476254074

Website for more help:
https://www.mathsisfun.com/numbers/fractions-division-whole-numbers.html

Dividing Fractions by Integers in 4 simple steps

1. Look at calculation $\frac{1}{2} \div 3$

2. **<u>Multiply</u>** (yes, multiply) the **denominator** by the **whole number** (2x3)

3. Keep the **numerator** the same. Your denominator is the answer to step 2 (1 over 6)

4. Simplify if need be.

$\frac{1}{2} \div 3$ = 1/6

Fractions

Division by whole numbers

The Problem:

$$\frac{2}{3} \div 2$$

Step 1

$$\frac{2}{3 \times 2} = \frac{2}{6}$$

Multiply the denominator by the whole number.

Step 2

$$\frac{2}{6} = \frac{1}{3}$$

Simplify the fraction to its simplest terms.

Day 3 – Dividing fractions by integers

1. $\dfrac{3}{5}$ ÷ 2 =

2. $\dfrac{1}{2}$ ÷ 2 =

3. $\dfrac{3}{4}$ ÷ 6 =

4. $\dfrac{5}{6}$ ÷ 2 =

5. $\dfrac{5}{8}$ ÷ 4 =

6. $\dfrac{1}{4}$ ÷ 7 =

7. $\dfrac{7}{8}$ ÷ 3 =

8. $\dfrac{7}{9}$ ÷ 5 =

9. $\dfrac{5}{12}$ ÷ 6 =

10. $\dfrac{2}{5}$ ÷ 4 =

Answers

1. $\dfrac{3}{5} \div 2 = \dfrac{3}{10}$

2. $\dfrac{1}{2} \div 2 = \dfrac{1}{4}$

3. $\dfrac{3}{4} \div 6 = \dfrac{3}{24}$
   $= \dfrac{1}{8}$

4. $\dfrac{5}{6} \div 2 = \dfrac{5}{12}$

5. $\dfrac{5}{8} \div 4 = \dfrac{5}{32}$

6. $\dfrac{1}{4} \div 7 = \dfrac{1}{28}$

7. $\dfrac{7}{8} \div 3 = \dfrac{7}{24}$

8. $\dfrac{7}{9} \div 5 = \dfrac{7}{45}$

9. $\dfrac{5}{12} \div 6 = \dfrac{5}{72}$

10. $\dfrac{2}{5} \div 4 = \dfrac{2}{20}$
    $= \dfrac{1}{10}$

Your task today is to crack the code!

You should find a separate document on the school website to download.

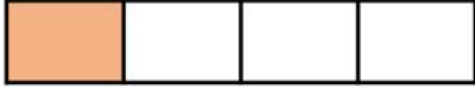Solve the calculations and match the letters up with the answers.

This task is also suitable for 2 star children, you may want to have a go at 1 star first to check you are confident.

Fancy some more maths?

Flashback 4

CII

1) Calculate $\frac{1}{4} \div 2$

2) Use $<$, $>$ or $=$ to compare.

$$\frac{2}{3} - \frac{1}{3} \bigcirc \frac{6}{9} - \frac{3}{9}$$

3) Find the missing number. $35 \times 100 = \square \times 50$

4) Which is greater, 2,000 g or 200 kg?

White Rose Maths

Flashback 4

CII

1) Calculate $\frac{1}{4} \div 2$

$\frac{1}{8}$

2) Use $<$, $>$ or $=$ to compare.

$$\frac{2}{3} - \frac{1}{3} \bigcirc\!\!=\ \frac{6}{9} - \frac{3}{9}$$

3) Find the missing number. $35 \times 100 = \boxed{70} \times 50$

4) Which is greater, 2,000 g or 200 kg?   200 kg

White Rose Maths