Wednesday 3rd June 2020

# Fractions

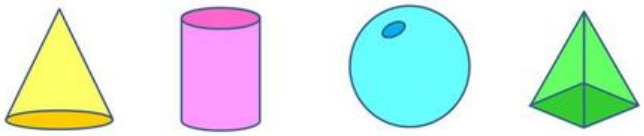
Hi Yachts ☺

## Mental Maths

Choose the best option for you then solve the problem in your head:

**Option 1**: Can you name all of the shapes below?

**Option 2**: Choose one of the 3D shapes below. Think of one interesting fact that you know about it – use the words **face**, **edge** and **vertex** or **vertices** in your fact.



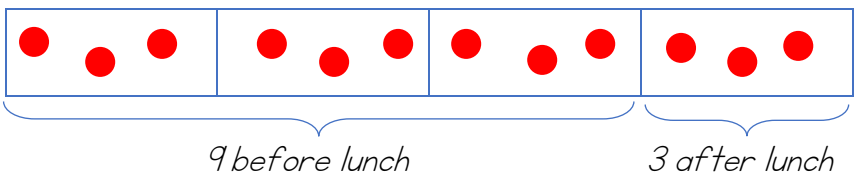
Use the RUCSAC method to solve the problems:

| | |
|---|---|
| **Read** | Read the question carefully. |
| **Underline** | Underline or write down the keywords and numbers. |
| **Choose** | Choose the correct operation (+ – x or ÷) and a mental or written method of calculation (you could use diagrams). |
| **Solve** | Solve it! Make sure you follow the steps carefully. |
| **Answer** | Check that you have answered the question properly. What did you need to find out in the first place? |
| **Check** | Check your answer. Use the inverse calculation or another checking technique (was it close to your estimate?) |

Use a fraction strip to help you with these questions. *Example: I have 12 maths problems and I solve three quarters of them before lunch.*

a. *How many maths problems do I solved before lunch?*

b. *How many do I solve after lunch?*

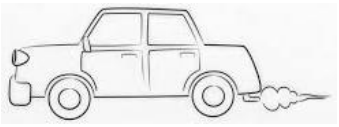


I have 28p and I spend one quarter of it.

a. How much money do I spend?

b. How much money do I have left?

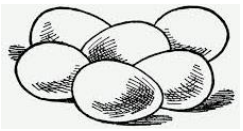
1. I drove for 18 hours in total to visit my friend in Scotland. I took the same route there and back.



a. How many hours did the journey there take?

b. How many hours did the journey back take?

2. I collect 24 eggs from my hens but I break three quarters of them when I fall.



a. How many eggs do I break?

b. How many eggs are left?

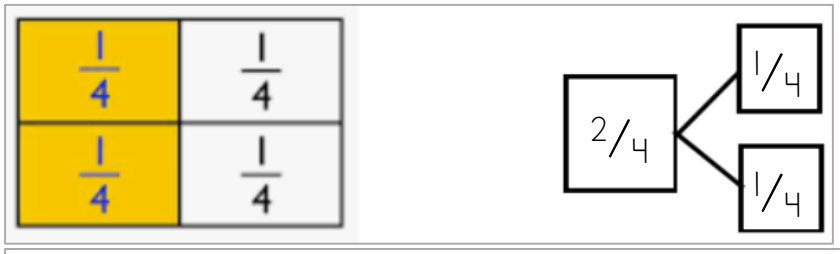
3. I have 30 sweets in a packet and I give one third of them to my friend.

a. How many sweets does my friend have now?

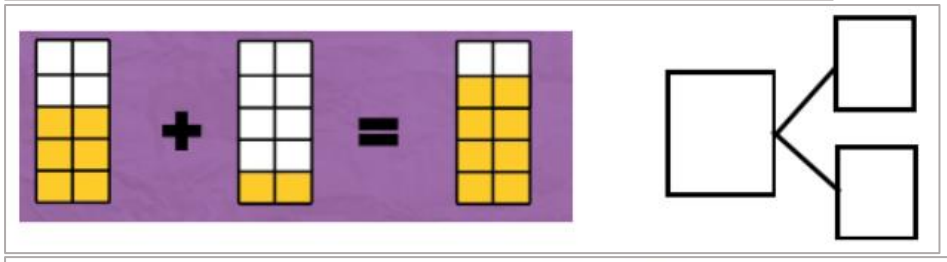
b. How many sweets do I have now?

4. Nina says that $^1/_2 + {}^1/_2 = {}^2/_4$ because when we add fractions with the same denominator, we add the numerators together and the denominators together. Do you agree? Explain your answer.

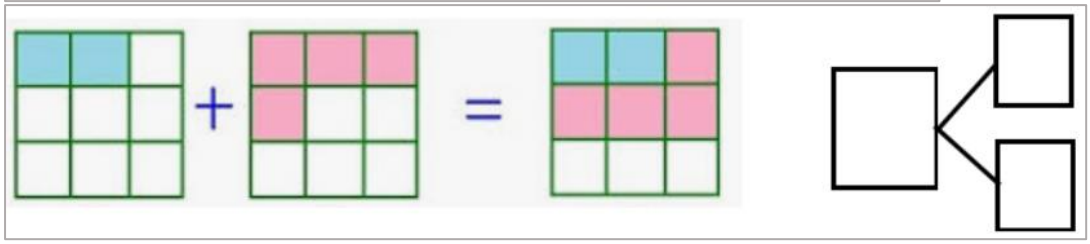
5. Use a part-whole model to add these fractions with the same denominator. I have given you an example:




a.



b.



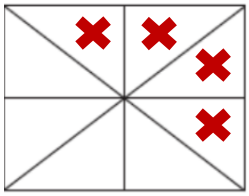
6. Add the fractions together and draw a diagram to show your answer (make sure that your parts are equal). I have given an example:

$^5/_8 + {}^2/_8 = {}^7/_8$

a. $^4/_6$ add $^1/_6$

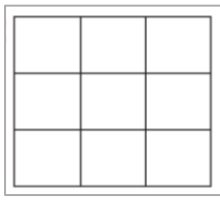
b. Five sevenths + two sevenths

7. Cross out the parts of the diagrams that have been subtracted then write down what fraction is left. I have done the first one for you.



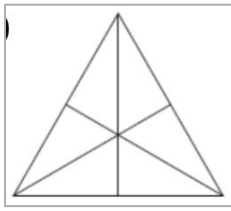
$\frac{8}{8} - \frac{4}{8} = \frac{4}{8}$

a.



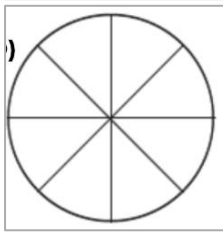
$\frac{9}{9} - \frac{8}{9} = \frac{\square}{\square}$

b.



$\frac{6}{6} - \frac{2}{6} = \frac{\square}{\square}$

c.



$\frac{8}{8} - \frac{6}{8} = \frac{\square}{\square}$

## Challenges

8. Complete the table to give the measurements in fractions and decimals.

| | |
|---|---|
| 0.3m | |
| | $\frac{5}{100}$ m |
| 0.1cm | |
| 0.09m | |
| | $\frac{90}{100}$ cm |
| 0.05m | |
| | $\frac{7}{100}$ cm |
| | $\frac{9}{100}$ m |

9. Colour and label the towers below by combining tenths. How many combinations can you come up with? I have given an example: