

## Multiplying and Dividing Fractions

1.  $1\frac{1}{2} \times \frac{1}{5} =$  3/10

6.  $2\frac{6}{10} \times \frac{2}{3} =$  52/30

2.  $\frac{5}{8} \div \frac{7}{8} =$  40/56 20/28 5/7

7.  $3\frac{1}{3} \div 4 =$  10/12

3.  $\frac{3}{8} \div \frac{2}{3} =$  9/24 3/8

5/6

4.  $\frac{3}{4} \times \frac{2}{5} =$  6/20 3/10

5.  $\frac{5}{8} \times \frac{4}{5} =$  20/40 1/2

8. I have a cake, which I would like to eat over two days. On day 1 and day 2 I will use exactly the same amount of cake. On day 1 I am feeding 8 people and on day 2, 6 people.

- a) How much cake will my guests receive on day 1?  
b) Then on day 2?

Day 1: In total 1/2

Day each: 1/16

9. Write the two missing values to make these equivalent fractions correct

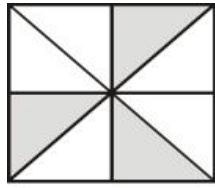
$$\frac{\boxed{2}}{3} = \frac{8}{12} = \frac{4}{\boxed{6}}$$

Day 2: In total 1/2

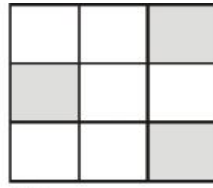
Day each: 1/12

1 and 22/30

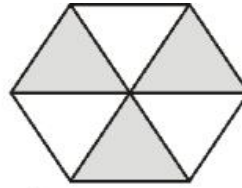
10. Each of these diagrams is divided into equal parts. Some of the parts are shaded.



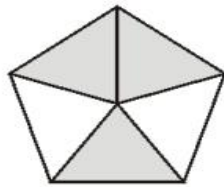
A



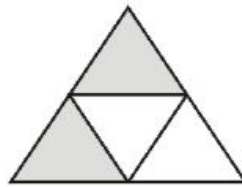
B



C



D



E

Write the letters of all the diagrams that have exactly  $\frac{1}{2}$  shaded.

C and E

11. I have 10 friends round for tea. Each person eats  $\frac{1}{3}$  of a pizza. How many pizzas would I need to buy so they all get  $\frac{1}{3}$  each?

4 pizzas (with some left over)

12. The length of a day on Earth is 24 hours.

The length of a day on Mercury is  $58\frac{2}{3}$  times the length of a day on Earth.

What is the length of a day on Mercury, in **hours**?

Show your method

1408

hours