# Dividing Fractions

**Section A:** Evaluate the following, leaving your answers as fractions in their simplest form, or mixed numbers where necessary:

1. 
2. 
3. 
4. 
5. 
6. 
7. 
8. 
9. 
10. 
11. 
12. 
13. 
14. 
15. 
16. 
17. 
18. 
19. 
20. 
21. 

Answers (absolute values only, without the sign):

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | 12 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |

Now evaluate these, converting them into top heavy fractions before you do the division:

1. 
2. 
3. 
4. 
5. 
6. 
7. 
8. 
9. 
10. 
11. 
12. 

Answers:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | 9 |  |
|  |  |  |  |  |  |  |

**Section B:** Wordy Questions

For each of the following, state a clear calculation which will give you the answer, before carrying out the calculation. **If you are stuck, think what you would do if the numbers in the question were replaced with integers.**

1. A hovercraft completes one crossing in three-quarters of an hour. What is the greatest number of crossings that it could make in eighteen hours?
2. A plank of wood is  meters. I cut off a piece which is 80cm long. How long is the remainder of the plank, measured in inches?
3. A yacht sails 60km in hours. Calculate its average speed.
4. Fruit costs £3 per kg. What is the cost of kg of fruit?
5. Find the missing length of these shapes…

Area =  cm2

 cm

i) ii)

Area =  cm2

 cm

1. 1 gallon (8 pints) is about  litres. About how much is 1 litre in pints?
2. A snail crawls 120 cm, then metres. How far has it crawled, in metres?
3. A recipe calls for 300 grams of gooseberries, 4 kilograms of blackberries, and kilograms of raspberries. What is the total mass of fruit, measured in kilograms?
4. Work out the area of a circle whose radius is  centimetres.
5. Solve the equation 





1. Find the missing lengths in these triangles, in fractions.





a. b.

**Section C**: This is the answer, what was the question?

For each of the following fractions, make up two division problems for which it could be the answer.

1.  2.  3.  4.  5. 

# Dividing Fractions - Homework

Evaluate the following calculations using the quick method. There's an answerbox below.

1. 
2. 
3. 
4. 
5. 
6. 

Answer these questions, showing your method carefully**. If you are stuck, thing what you would do if the numbers in the question were replaced with integers.**

1. A recipe for a chocolate cake needs lb of coco. If each chocolate cake serves 15 people, how many people can be served using a bag of coco weighing lb?
2. A motor boat is travelling at an average speed of km/h. How long will this boat take to travel 70km?

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | 360 |  |  | 1/8 |  |