

# **Can I solve word problems involving division?**

Lesson 5

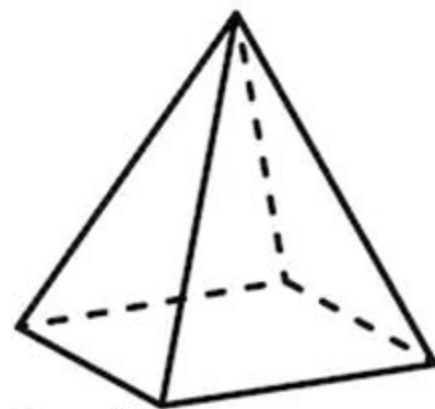
## Fast 5

$$56 = 7 \times ?$$

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

$$5^2 =$$

$$5000 - 4321 =$$



Vertices on  
this pyramid?

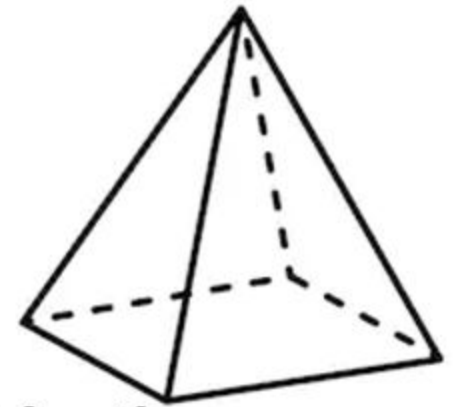
# Fast 5

$$56 = 7 \times 8$$

$$\frac{1}{2} + \frac{1}{3} = \frac{5}{6}$$

$$5^2 = 25$$

$$5000 - 4321 = 679$$



Vertices on  
this pyramid? **5**

## Top tips for division problem solving:

- Read the question - twice.
- Put yourself in the problem.
- Check your answer is reasonable.
- If there is a remainder, does the situation need me to round up or down?

A group of 48 children is divided into groups of 6 children. How many groups will be formed?

Straightforward  
calculation here.

A group of 48 children is divided into groups of 6 children. How many groups will be formed?

$$48 \div 6 = 8$$

So, 8 groups formed.

A pot holds 6 pencils. How many full pots can be made with 51 pencils?

Can I make a  
*full* pot from 3  
pencils?

A pot holds 6 pencils. How  
many full pots can be made  
with 51 pencils?

$$51 \div 6 = 8 \text{ r } 3$$

No, so we round down. The answer  
here is 8 pots.



A table seats groups of 6 children.  
How many tables are needed for 45  
children?

Can we have any children *without* a table?

A table seats groups of 6 children. How many tables are needed for 45 children?

$$45 \div 6 = 7 \text{ r } 3$$

No, so we round up.

8 tables are needed.

Mr Lee has 3 packs of balls, each containing 4 balls. He also has 52 balls, which are also in packs of 4 balls. How many packs of 4 balls are there now?

Here we have a two step problem. We need to do the division *first*.

$$52 \div 4 = 13$$

$$13 + 3 = 16$$

There are 16 packs of balls.

Mr Lee has 3 packs of balls, each containing 4 balls. He also has 52 balls, which are also in packs of 4 balls. How many packs of 4 balls are there now?

There are 16 boys and 15 girls in a class. They are organised into tables of 4. How many tables are needed to seat all of the children?

Here we have a two step problem. We need to do the division *second*.

There are 16 boys and 15 girls in a class. They are organised into tables of 4. How many tables are needed to seat all of the children?

$$16 + 15 = 31$$
$$31 \div 4 = 7 \text{ r } 3$$

8 tables are needed

Now try these!

The Year 5 teachers have 3 bags of 12 seeds, and 6 bags of 8 seeds.

We seeds are combined in new bags that contained 15 seeds each.

How many full bags will be made?

# Answer

The Year 5 teachers have 3 bags of 12 seeds, and 6 bags of 8 seeds. We seeds are combined in new bags that contained 15 seeds each. How many full bags will be made?

$$3 \times 12 = 36$$

$$6 \times 8 = 48$$

$$48 + 36 = 84$$

$$84 \div 15 = 5 \text{ r } 9$$

5 new bags will be made



Try this

Mr Parry has 48 black pens and 27 blue pens. He shares the black pens then the blue pens equally between 6 pots.

Try this

Mr Parry has 48 black pens and 27 blue pens. He shares the black pens then the blue pens equally between 6 pots. How many pens are in each pot?

$$48 \div 6 = 8$$

$$27 \div 6 = 4 \text{ r } 3$$

$$8 + 4 = 12$$