



# Key Instant Recall Facts

## Year 6 – Autumn 1

**I can use x table facts to multiply and divide decimals**

By the end of this half term, children should know the following facts. The aim is for them to recall these facts **instantly**.

Please see separate sheet for all times table facts.

This is a chance for Year 6 children to consolidate their knowledge of multiplication and division facts, increase their speed of recall and apply skills to decimal calculations.

### Key Vocabulary

What is 1.2 **multiplied** by 6?

What is 7 **times** 0.8?

What is the **product** of 3 and 0.4?

What is 8.4 **divided** by 7?

What is the **quotient** of 6.4 and 8?

They should be able to answer these questions in any order, including missing number questions e.g.  $7 \times \bigcirc = 28$  or  $\bigcirc \div 6 = 7$ .

Children should apply this knowledge to answer questions including decimals e.g.  $0.7 \times \bigcirc = 4.2$  or  $\bigcirc \div 60 = 0.7$

### Top Tips

- The secret to success is practising little and often. Use time wisely. Can you practise these KIRFs while walking to school or during a car journey? You don't need to practise them all at once: perhaps you could have a fact of the day. Create regular, short opportunities for rapid-fire questions where an instant correct answer is required.
- Use objects to consider the x tables in a practical way.
- Look at the patterns with both objects and numbers e.g.  $5 \times 7 = 35$  and  $5 \times 0.7 = 3.5$ . What do you notice?
- Practise with the numbers both in order and chosen randomly- remember the aim is to be able to answer immediately.
- Chanting tables really does help- remember to practise division facts as well as often children find them more challenging to recall.
- Online games – there are many games online which help children practise their multiplication and division facts. Use Times tables Rockstars and [www.conkermaths.org](http://www.conkermaths.org).
- Memory tricks – for those hard – to – remember facts, [www.multiplication.com](http://www.multiplication.com) has some unusual picture stories to help children remember.

### Make it real!

A piece of ribbon is 8.4 cm in length and is going to be shared equally between 7 people. How long is the piece of ribbon that each person will receive?

1.2 cm.

Are you sure?

Yes, because  $1.2 \times 7$  is 8.4 (and  $12 \times 7$  is 84)



One smartie weighs 0.6 grams. In one pack, there are 12 smarties. How much would a pack of smarties cost?

7.2 grams.

Are you sure?

Yes, because 7.2 divided by 12 is 0.6 (and 72 divided by 12 is 6)



### Make it fun!

Encourage children to use doubling to work out their 8x table if they already know their 4x table. If you know your 8x table then the 0.8x table follows the same pattern.

### Playing cards

- Speed Challenge – take two packs of playing cards and remove the kings. Turn over two cards and ask your child to multiply the numbers together (Ace = 1, Jack = 11 and Queen = 12). How many questions can they answer correctly in 2 minutes? Practise regularly and see if they can beat their high score.
- Remove picture cards from the pack. Pick a card and treat the number as tenths. State the multiplication and division fact that the child is working on. E.g. pick the '8' card so  $7 \times 0.8 = 5.6$  and  $5.6$  divided by 7 is 0.8.

### Dominoes

- Pick a domino and treat this number as tenths. State the multiplication and division fact that the child is working on. E.g. the number on the domino is '4' so  $6 \times 0.4$  is 2.4 and 2.4 divided by 6 is 0.4