

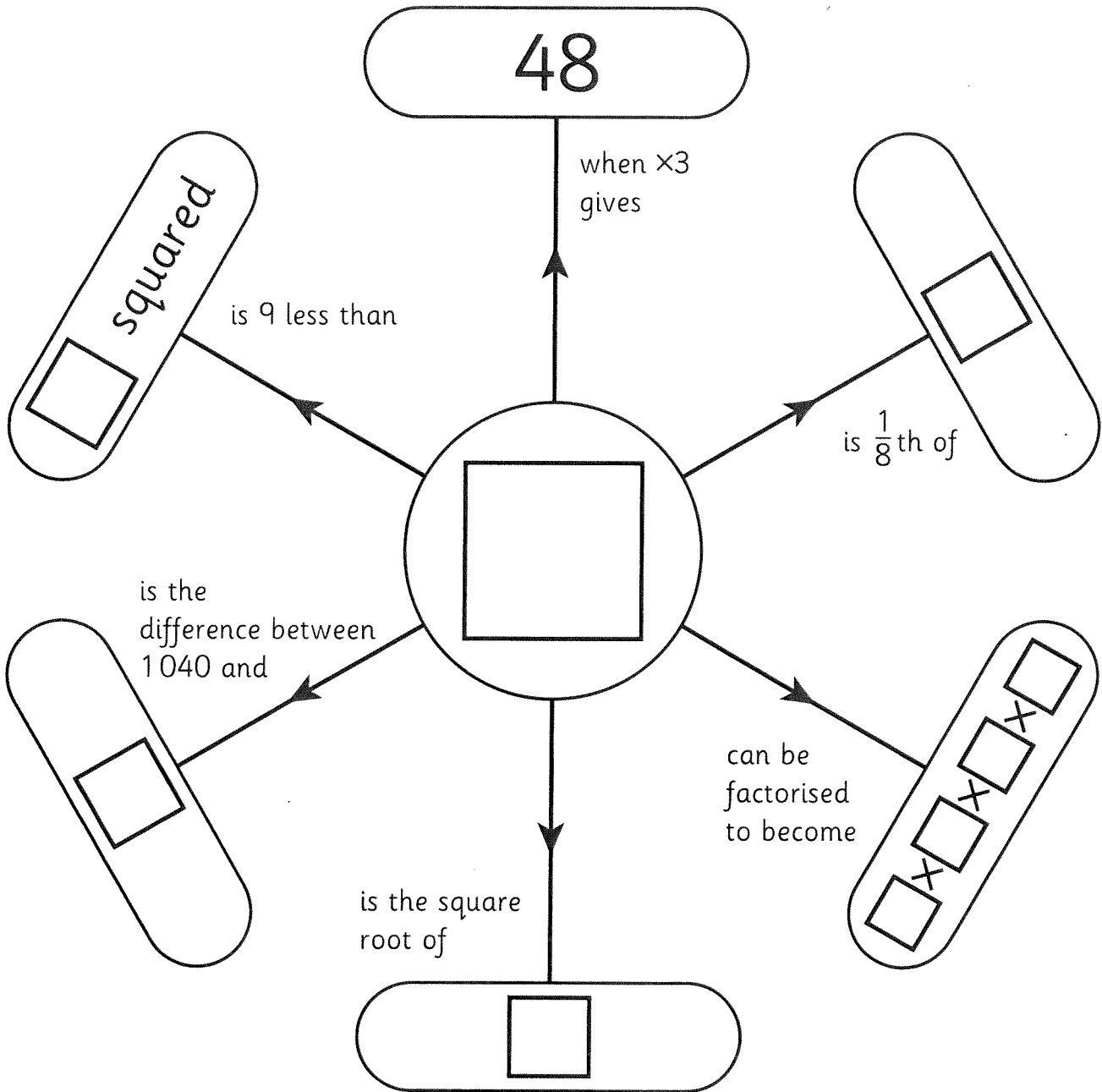


Name: \_\_\_\_\_

# Big wheel

**You will need:** a pencil, neat paper and scrap paper.

- Find the central number.
- Find a number for each box to complete the 'Big wheel'.



- Invent a 'Big wheel' puzzle of your own and bring it to school for your friends to try.

Dear Helper,

Make sure that your child fills in all the box answers. Encourage them to include challenging statements on their Big wheel. You may like to help them produce it. Make sure that their wheel is as neat as possible. Hide the calculator.



Name: \_\_\_\_\_

# Factorising and prime factors

**You will need:** a pencil and some scrap paper.

For each of the numbers below 'yes' has been written if they are prime numbers and 'no' if they are not.

Unfortunately some mistakes have been made.



1 a Can you find and correct them?

Number	Is it prime?	Factors
21	no	
23	yes	
25	yes no	
27	yes	
29	yes	
31	yes	
33	no	
35	yes	

b Write in each number's factors, in the third column.

2 a 24 can be factorised as  $12 \times 2$  or  $4 \times 3 \times 2$ . Find two other ways.

\_\_\_\_\_

\_\_\_\_\_

A prime factor is a factor which is a prime number.

3 Find the numbers less than 20 which can be factorised using prime factors only.

Find two ways of factorising:

b 28

c 45

d 54

e 76

Number	4	6
Prime factors	$2 \times 2$	$2 \times 3$

Dear Helper,

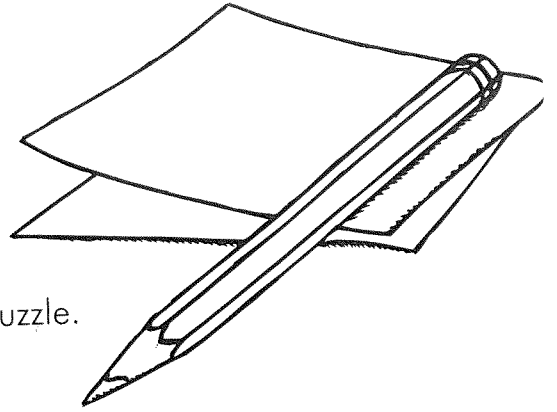
These questions give practice in finding prime numbers, for example 19, 37. They also find factors, for example the factors of 16 are 1, 2, 4, 8, 16. Numbers are factorised, 27 is written as  $9 \times 3$  or  $3 \times 3 \times 3$ , and finally numbers are factorised using prime factors only. For example, 12 as  $3 \times 2 \times 2$ , as both 3 and 2 are prime numbers. Let your child try the questions by themselves, but be ready to give help if it is needed.



Name: \_\_\_\_\_

# Cross-number

You will need: a pencil and some paper.



**DO NOT USE A CALCULATOR**

- Use the clues below to solve this cross-number puzzle.  
Remember to estimate first.

**Clues**

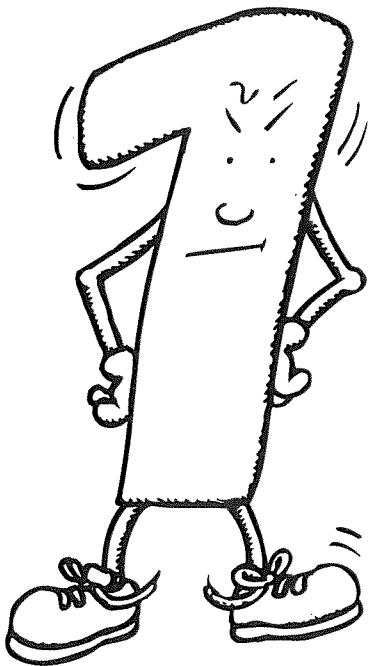
**Across**

- 1  $1845 \times 3$
- 3  $1798 \times 4$
- 4  $986 \times 7$
- 5  $[ ] \div 17 = 5$

**Down**

- 1  $1269 \times 4$
- 2  $837 \times 6$

1			2
3			
4			
	5		



PHOTOCOPIABLE

Dear Helper,

The cross-number calculations involve the multiplication of two-, three- and four-digit numbers by a single digit. Encourage your child to estimate first and then do a written calculation on a sheet of paper, before entering the result on the puzzle. Hide the calculator!

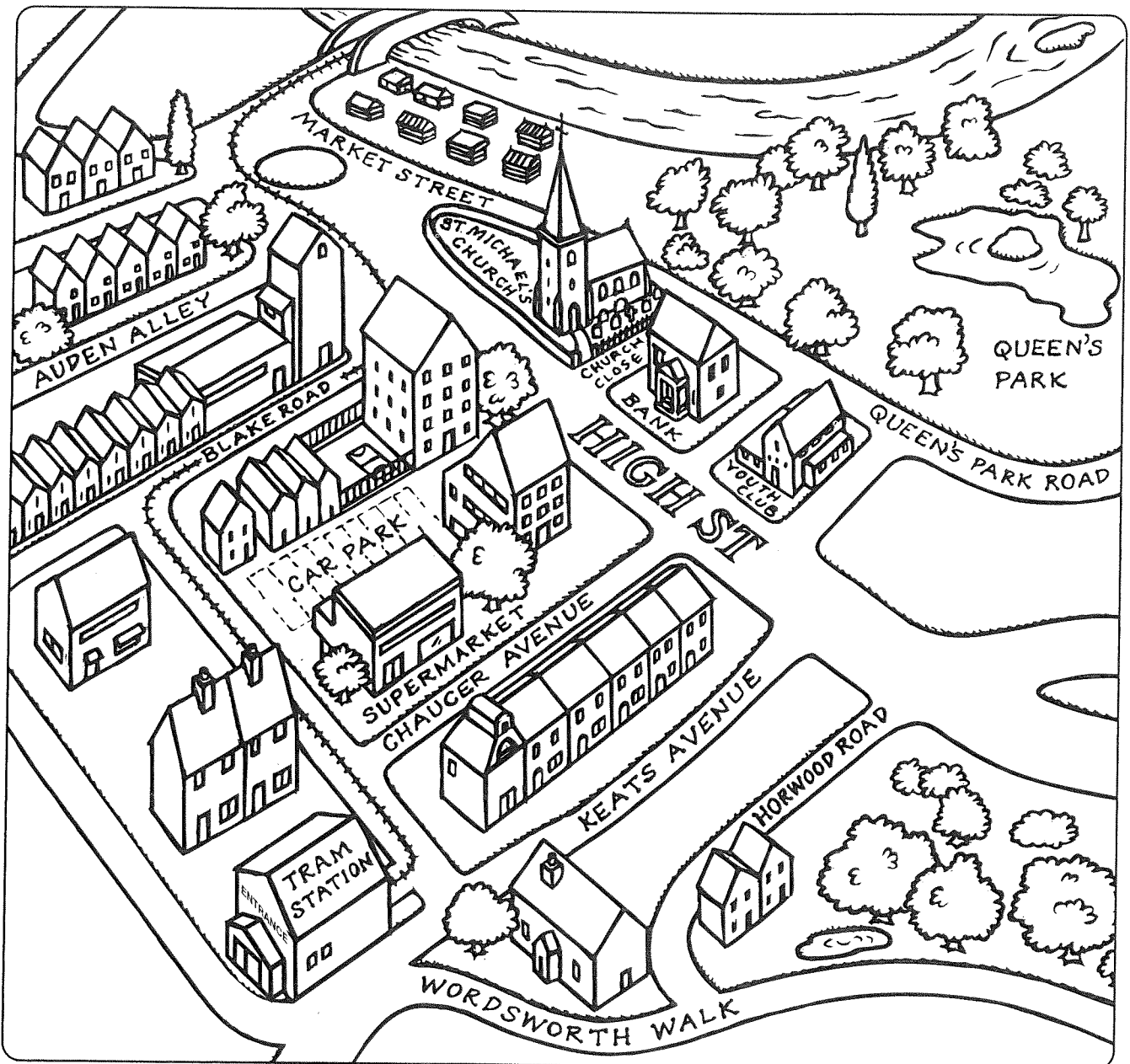
Name: \_\_\_\_\_

# The directions game

- Play this game with someone else.
- Take it in turns to give each other directions to get from one place to another. As the directions are given, follow them on the map.
- Write down some examples, like this:

## From the Town Centre Tram Station to St Michael's Church

When you come out of the station, turn left into Keats Avenue. Walk along Keats Avenue until you get to High Street, then turn left again. Walk along High Street past the Youth Club and the bank. St Michael's Church is just after the bank.



Dear Helper,

Objective: to understand directions.

Take it in turns with your child to give and follow directions.

# Active sentences

- The **subject** of an active sentence (or clause) does the action. The **object** has the action done to it.
- Complete the sentences on the chart.

Subject	Verb	Object	Connective	Subject	Verb	Object
Sean's dad	bought	a car	but	he	did not like	it.
The angler	caught					
	drew		and then		smiled.	
	likes		but		likes.	
	eat		but		eat.	
	wore		because		was raining.	
	has		but		does not have	
	opened		and		saw	

- On a photocopied text, underline all the verbs. Circle the subject of each verb in one colour. Circle the object of each verb in another colour.

Teachers' note The children should understand the terms 'subject' and 'object' before they begin this activity. They could identify the subjects (and objects where appropriate) in a shared text.

# 9 Holiday countries

Name .....

Choose five countries that people go to on holiday. Write their names in the table.

1 For each country, name the capital city and currency (money), and colour in the flag. Use an atlas, an encyclopaedia or the Internet to help you.

Country	Capital city	Currency	Flag

2 Find pictures of the five countries. Compare the buildings and the countryside.

3 a Which country would you like to visit? .....

b Why? .....

.....

**Key idea** To compare some of the different countries which people visit on holiday.

**Extension** Compare the climates of the countries chosen in this activity. Ask the children to mark the countries on the world map (page 19).