

TARGET To interpret remainders appropriately for the context.

Examples

How many complete years are there in 150 months?

$$150 \div 12 = 12 \text{ r } 6 \text{ (Round down.)}$$

Answer 12 complete years

One nurse is needed for every 5 patients.

How many nurses are needed for 48 patients?

$$48 \div 5 = 9 \text{ r } 3 \text{ (Round up.)}$$

Answer 10 nurses are needed.

A

Copy and complete.

1 $17 \div 3 = 5 \text{ r } \square$

2 $15 \div 2 = 7 \text{ r } \square$

3 $87 \div 10 = \square \text{ r } \square$

4 $29 \div 5 = \square \text{ r } \square$

- 5 What is the biggest remainder you can have when you divide a number by:
- a) 2
 - b) 5?

- 6 Darts are sold in packets of three. How many packets can be made from 20 darts?

- 7 A class of 27 children are reading the same book. One book is shared by two children. How many books are needed?

- 8 Adam saves 10p coins. How many will he need to buy a toy for 75p?

- 9 How many complete weeks are there in 20 days?

B

Work out

- 1 $61 \div 4$
- 2 $58 \div 6$
- 3 $31 \div 7$
- 4 $80 \div 11$
- 5 $72 \div 5$
- 6 $61 \div 9$
- 7 $39 \div 12$
- 8 $100 \div 8$

- 9 What is the biggest remainder you can have when you divide a number by:
- a) 4
 - b) 7
 - c) 12
 - d) 10?

- 10 Nine children can sit on each bench. There are 40 children. How many benches are needed?

- 11 A blacksmith has 50 horseshoes. How many horses can be given four new shoes?

- 12 A netball team has seven players. How many teams can be made from 24 players?

- 13 Six mushrooms fit into one bag. How many bags are needed for 32 mushrooms?

C

Work out

- 1 $136 \div 6$
- 2 $143 \div 5$
- 3 $100 \div 7$
- 4 $130 \div 3$
- 5 $650 \div 90$
- 6 $430 \div 40$
- 7 $400 \div 60$
- 8 $700 \div 80$

- 9 What is the biggest remainder you can have when you divide a number by 8? Give a reason for your answer.

- 10 Balloons are sold in packets of eight. How many packets can be made from 150 balloons?

- 11 Six people can sit at each table. How many tables are needed for 175 people?

- 12 Sweets cost 15p each. How many can be bought for one pound?

- 13 A ferry can carry 25 cars in one crossing of a river. There are 186 cars queuing to use the ferry. How many crossings will it take to clear the queue?

- 14 How many £20 notes are needed to pay £325?