

## Reasoning – Multiplication Problems

### Information:

These questions have been taken from the KS1 Reasoning test to help your children practise specific question types.

### National Curriculum Objectives:

Mathematics Year 1: (1C8) [Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher](#)

Mathematics Year 2: (2C8) [Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts](#)

### Differentiation:

**Beginner** Solve one-step problems involving 1 and 2 times table. Aimed at Year 1 Developing.

**Easy** Solve one-step problems involving 2, 5 and 10 times table. Aimed at Year 1 Expected.

**Tricky** Solve two-step problems involving 2 and 10 times table. Aimed at Year 1 Greater Depth/Year 2 Developing.

**Expert** Solve two-step problems involving 2, 5 and 10 times table. Aimed at Year 2 Expected.

**Brainbox** Solve two-step problems involving 2, 3, 5 and 10 times table. Aimed at Year 2 Greater Depth.

More [Reasoning](#) resources.

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Multiplication Problems – Teaching Information

## Reasoning – Multiplication Problems

1. Shirley puts one toy in each box.

How many toys are there altogether?



toys

2. Leo puts two shirts in each box.

How many shirts are there altogether?



shirts

3. Monica puts one picture in each box.

How many pictures are there altogether?



pictures

4. Theo puts two books in each box.

How many books are there altogether?



books

## Reasoning – Multiplication Problems

5. One person gets on each boat.

How many people are there altogether?



people

6. Two people ride on each train.

How many people are there altogether?



people

7. One person gets in each car.

How many people are there altogether?



people

8. Two people ride in each balloon.

How many people are there altogether?



people

## Reasoning – Multiplication Problems

9. Two people get in each car.

How many people are there altogether?



people

10. Alan put two shoes in each box.

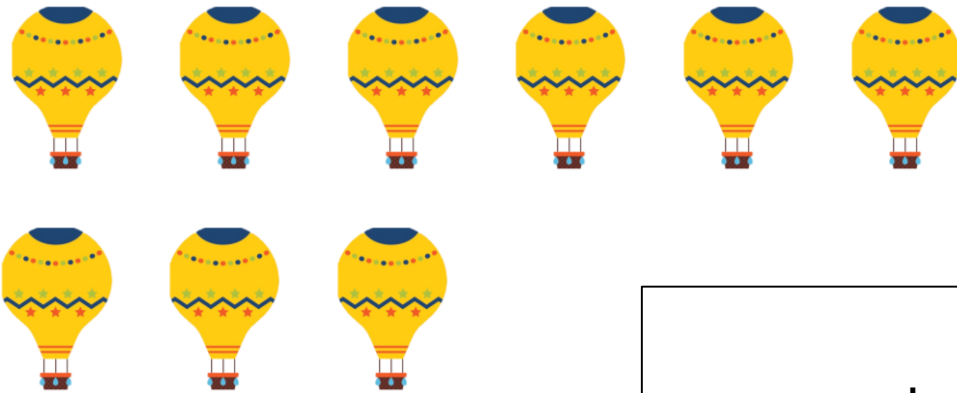
How many shoes are there altogether?



shoes

11. One person rides in each balloon.

How many people are there altogether?



people

11. Sam puts one present in each box.

How many presents are there altogether?

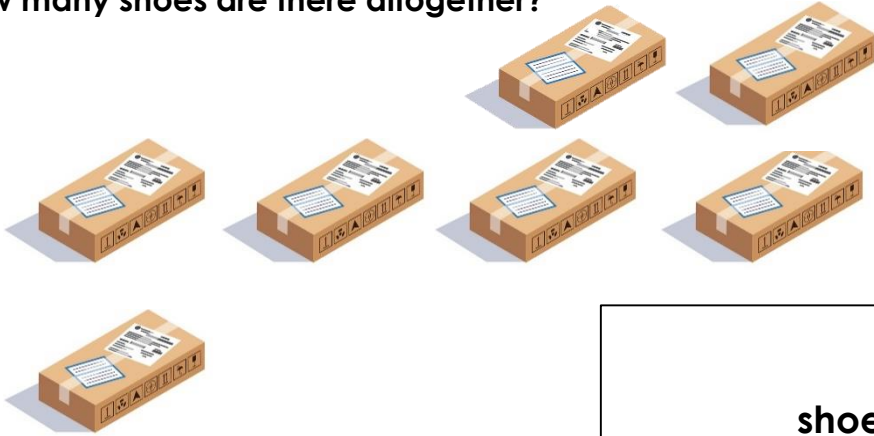


presents

## Reasoning – Multiplication Problems

1. Martin puts two shoes in each box.

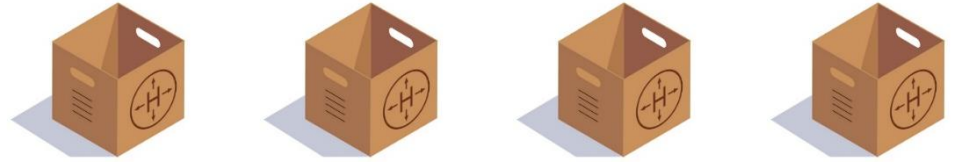
How many shoes are there altogether?



shoes

2. Hannah puts ten socks in each box.

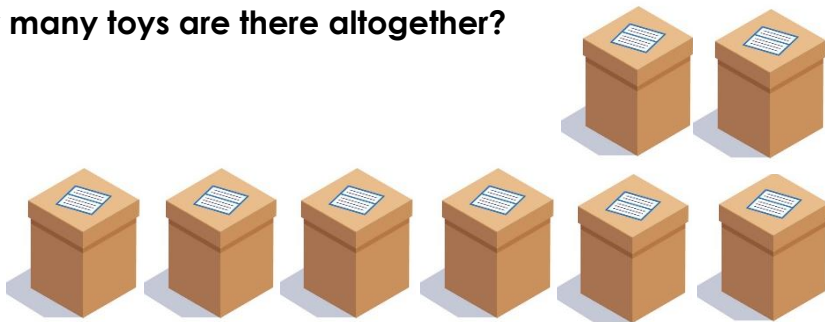
How many socks are there altogether?



socks

3. Finlay puts two toys in each box.

How many toys are there altogether?



toys

4. Toby puts ten teddies in each box.

How many teddies are there altogether?



teddies

## Reasoning – Multiplication Problems

5. Two people get on each helicopter.

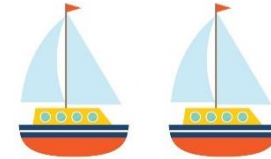
How many people are there altogether?



people

6. Ten people get on each boat.

How many people are there altogether?



people

7. Ten people get on each train.

How many people are there altogether?



people

8. Two people get in each car.

How many people are there altogether?



people

## Reasoning – Multiplication Problems

9. Oscar puts ten flowers in each box.

How many flowers are there altogether?



flowers

10. Maria puts two mugs in each box.

How many mugs are there altogether?



mugs

11. Stan puts ten books in each box.

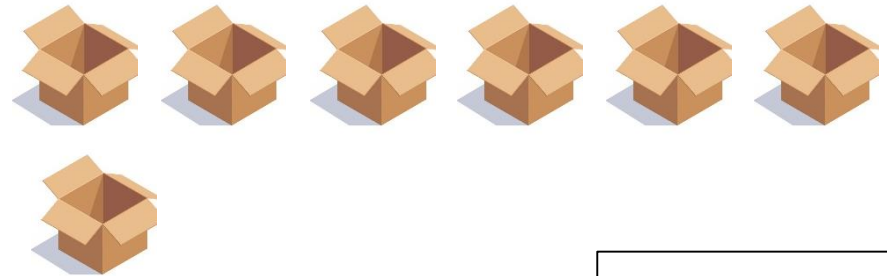
How many books are there altogether?



books

12. Saj puts ten cards in each box.

How many cards are there altogether?



cards

## Reasoning – Multiplication Problems

1. Maj puts two toys in each box.

He adds two more toys. How many toys are there altogether?



toys

2. Georgia puts ten coats in each box.

She gives one coat away. How many coats are left?



coats

3. Jeremey puts ten balls in each box.

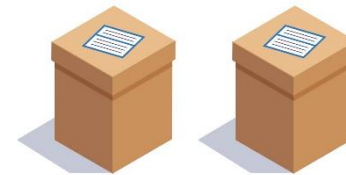
He gives two balls away. How many balls are left?



balls

4. Sebastian puts two photos in each box.

He puts two more photos in one box. How many photos are there altogether?



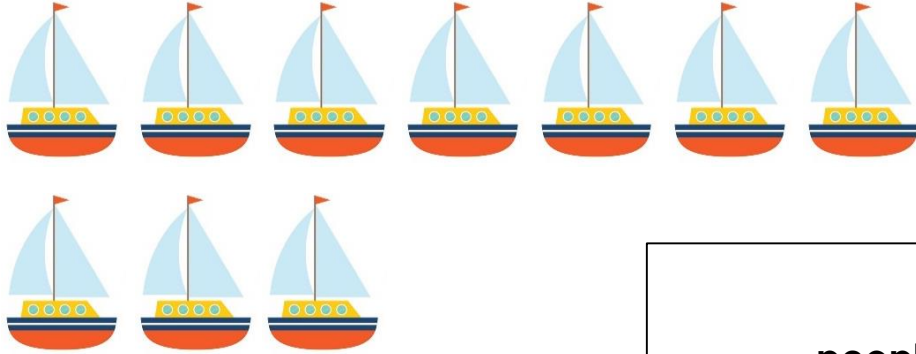
photos



## Reasoning – Multiplication Problems

5. Ten people get on each boat.

One boat sails away. How many people are left?



people

6. Two people ride on each train.

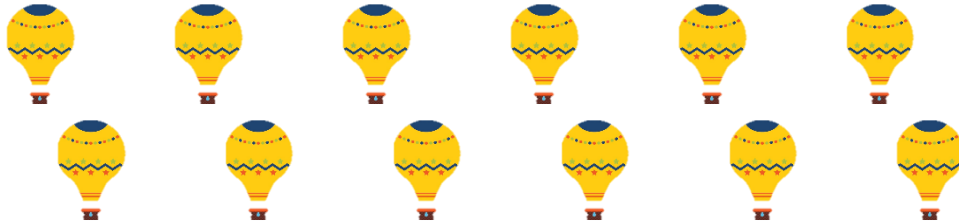
Two more people get on. How many people are there altogether?



people

7. Two people get in each hot air balloon.

One balloons floats away. How many people are left?



people

8. Two people get in each car.

Two people get out. How many people are left?



people

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Multiplication problems – Worksheet 2 – Tricky

## Reasoning – Multiplication Problems

9. Ali puts ten rings in each box.

He adds two more rings. How many rings are there altogether?



rings

10. Ronnie puts ten shoes in each box.

He adds ten more shoes. How many shoes are there altogether?



shoes

11. Nicole puts two candles in each box.

She take two candles out. How many candles are left?



candles

12. Lucas puts ten toys in each box.

He adds ten more toys. How many toys are there altogether?



toys

## Reasoning – Multiplication Problems

1. Finlay puts two toys in each box.

He gives away two boxes. How many toys are left?



toys

2. Spencer puts five tins in each box.

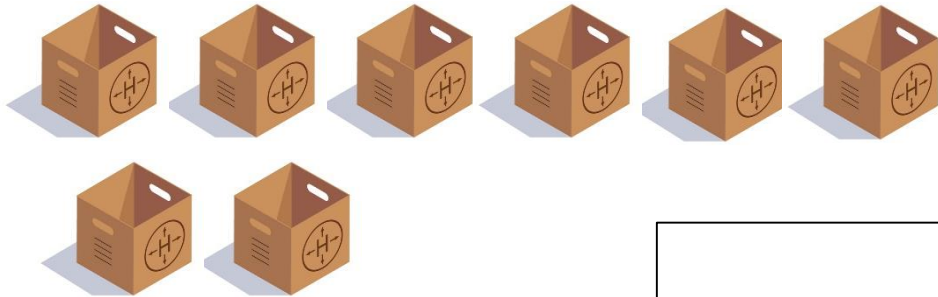
He then doubles the amount in each box. How many tins are there altogether?



coats

3. Shirley puts ten balls in each box.

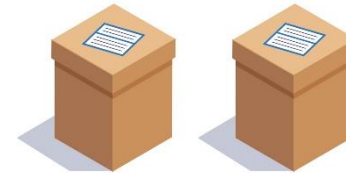
She takes one ball out of five boxes. How many balls are there altogether?



balls

4. Ariel puts five photos in each box.

She adds two more to each box. How many photos are there altogether?

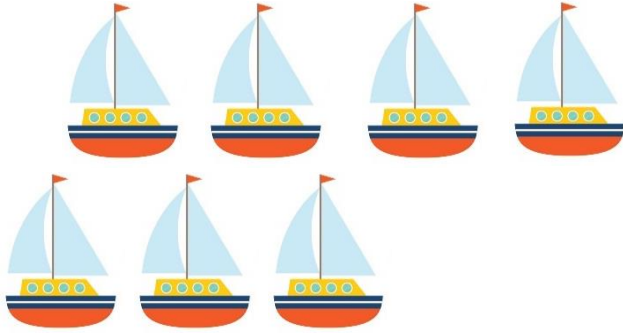


photos

## Reasoning – Multiplication Problems

5. Ten people get on each boat.

Five people get off one of the boats. How many people are left?



people

6. Five people get on each train.

One train leaves the station. How many people are left?



people

7. Two people get in each hot air balloon.

Two more people get in each balloon. How many people are there altogether?



people

8. Five people get in each car.

Half the cars drive off. How many people are left?



people

## Reasoning – Multiplication Problems

9. Milly puts five cakes in each box.

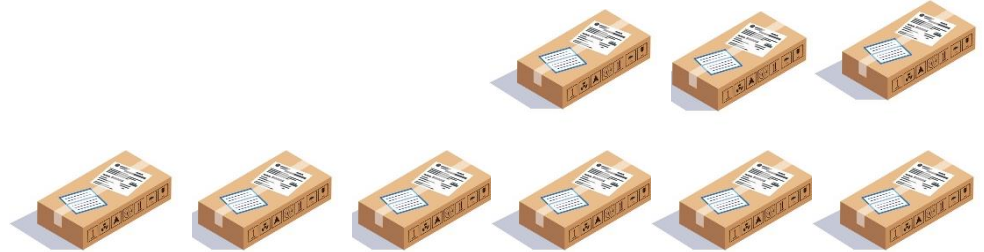
She takes two cakes out of five boxes. How many cakes are left?



cakes

10. Ryan puts 10 shoes in each box.

He gives five pairs of shoes away. How many shoes are left?



shoes

11. Suzie puts two candles in each box.

She burns ten candles. How many candles are left?



candles

12. Lucie puts five toys in each box.

She adds two more to each box. How many toys are there altogether?



toys

## Reasoning – Multiplication Problems

1. Peter puts three pencils in each box.

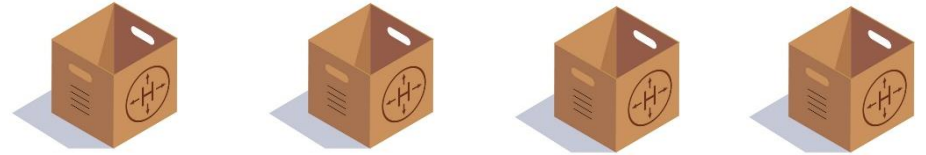
He gives half away. How many pencils are left?



pencils

2. Jodie puts three shirts in each box.

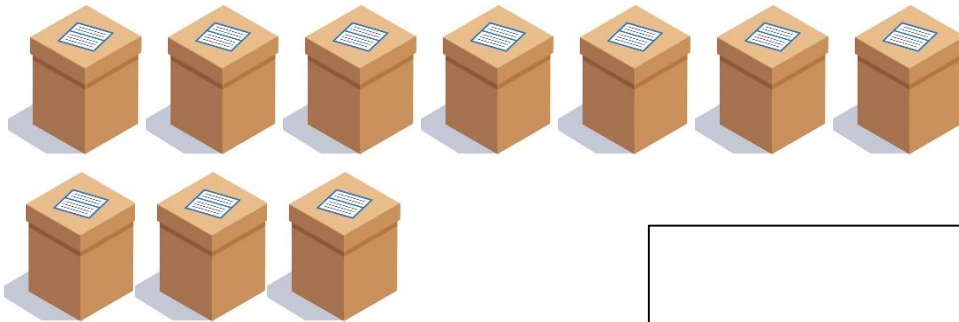
She adds one more to each box. How many shirts are there altogether?



shirts

3. Kelly puts ten pictures in each box.

She takes one out of each box. How many pictures are left?



pictures

4. Carl puts three plates in each box.

He takes away one box. How many plates are left?



plates

## Reasoning – Multiplication Problems

5. Three people are in each helicopter.

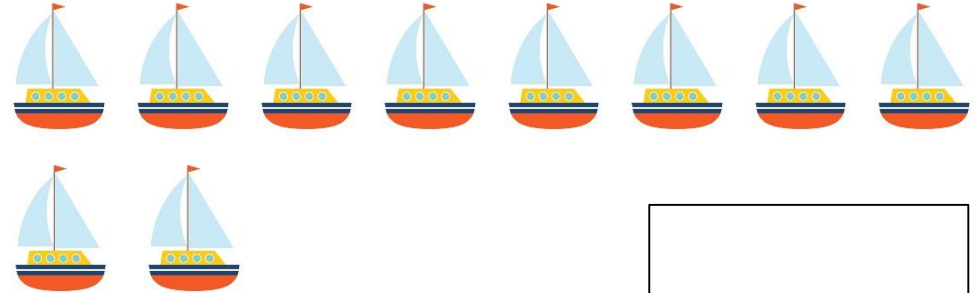
Two people get off one helicopter. How many people are left?



people

6. Ten people are in each boat.

Half the boats sail off. How many people are left?



people

7. Five people are in each train.

Two more people get on two of the trains. How many people are there altogether?



people

8. Three people are in each car.

One more person gets in each car. How many people are there altogether?



people

## Reasoning – Multiplication Problems

9. Mia puts three sweets in each box.

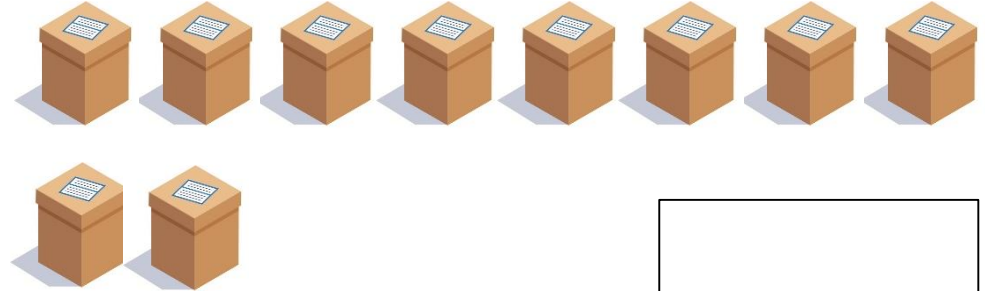
She eats ten sweets. How many sweets are left?



sweets

10. Henry puts five toys in each box.

He gives half of his boxes away. How many toys are left?



toys

11. Abi puts three books in each box.

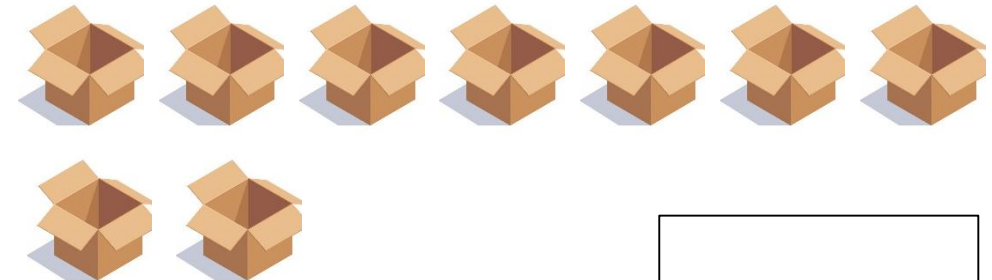
She adds two more books to each box. How many books are there altogether?



books

12. Aniyah puts three watches in each box.

She adds two more boxes and puts three watches in each of them. How many watches are there altogether?



watches

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Multiplication problems – Worksheet 3 – Brainbox



## Reasoning – Multiplication Problems

### Beginner

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

### Easy

- |       |       |       |        |        |        |
|-------|-------|-------|--------|--------|--------|
| 1. 14 | 2. 40 | 3. 16 | 4. 30  | 5. 12  | 6. 20  |
| 7. 50 | 8. 20 | 9. 60 | 10. 18 | 11. 80 | 12. 70 |

### Tricky

- |       |       |       |        |        |        |
|-------|-------|-------|--------|--------|--------|
| 1. 22 | 2. 29 | 3. 88 | 4. 6   | 5. 90  | 6. 12  |
| 7. 22 | 8. 6  | 9. 62 | 10. 90 | 11. 20 | 12. 80 |

### Expert

- |       |       |       |        |       |        |
|-------|-------|-------|--------|-------|--------|
| 1. 12 | 2. 30 | 3. 75 | 4. 14  | 5. 65 | 6. 25  |
| 7. 44 | 8. 10 | 9. 20 | 10. 80 | 11. 8 | 12. 49 |

### Brainbox

- |       |       |       |        |        |        |
|-------|-------|-------|--------|--------|--------|
| 1. 12 | 2. 16 | 3. 90 | 4. 6   | 5. 13  | 6. 50  |
| 7. 49 | 8. 28 | 9. 8  | 10. 25 | 11. 40 | 12. 33 |

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Multiplication problems **ANSWERS**