

Year 4: Scaling, correspondence and multiplying three numbers: worksheet

Year 4 - Short Multiplication and Short Division - Lesson 4.6

Name: _____

Date: _____

Score: _____

15 questions. Write your answers in the spaces. Answers and step-by-step help are free at websink.site/ks2-sats/maths/year-4/ch04-multiplying-dividing/scaling-correspondence-and-multiplying-three-numbers/

Exercise 4F Scaling, correspondence and three numbers

Non-calculator

1 Work out each answer. Use a bar model to help you.

- (a) Ella has 18 stickers. Omar has 5 times as many stickers as Ella. How many stickers does Omar have?

Answer: _____

- (b) A pencil is 17 cm long. A ruler is 3 times as long as the pencil. How long is the ruler?

Answer: _____

(c)

A bag of apples weighs 125 g. A melon weighs 4 times as much as the bag. How much does the melon weigh?

Answer: _____

- (d) A pen costs 45p. A book costs 6 times as much as the pen. How much does the book cost?

Answer: _____

2 Work out the smaller amount in each problem.

- (a) Dad has 84 stamps. This is 6 times as many as Ben has. How many stamps does Ben have?

Answer: _____

- (b) A tree is 96 m tall. It is 4 times as tall as the shed. How tall is the shed?

Answer: _____

- (c) A bike costs £192. It costs 4 times as much as a helmet. How much does the helmet cost?

Answer: _____

- (d) A lorry carries 135 boxes. This is 5 times as many as a van carries. How many boxes does the van carry?

Answer: _____

3 Each pair of problems tells the same story. Say whether to multiply or divide, and work out each answer.

- (a) Sam has 8 books. Tia has 6 times as many books as Sam. How many books does Tia have?

Answer: _____

- (b) Tia has 48 books. This is 6 times as many as Sam has. How many books does Sam have?

Answer: _____

- (c) Kai has 9 marbles. Jo has 7 times as many marbles as Kai. How many marbles does Jo have?

Answer: _____

(d) Jo has 63 marbles. This is 7 times as many as Kai has. How many marbles does Kai have?

Answer:

4 How many different combinations are there?

(a) Jamal has 4 T-shirts and 6 pairs of shorts. How many different outfits can he make?

Answer:

(b) A menu has 5 starters and 4 mains. You choose one of each. How many different meals can you make?

Answer:

(c)

A cafe has 6 types of bread and 5 fillings. How many different sandwiches can be made with one bread and one filling?

Answer:

(d)

A cafe has 7 drinks and 3 cakes. A customer picks one drink and one cake. How many different pairs can they pick?

Answer:

5 Three groups of choices.

(a) Mei has 3 skirts, 4 tops and 2 scarves. She wears one of each. How many different outfits are there?

Answer:

(b)

A restaurant has 2 starters, 5 mains and 4 puddings. How many different three-course meals can you choose?

Answer:

6 Work out the missing number of choices.

(a) There are 36 different meals. There are 4 starters. How many mains are there?

Answer:

(b)

Priya can make 28 different outfits with a skirt and a top. She has 4 skirts. How many tops does she have?

Answer:

(c) A shop makes 45 different ice creams. There are 5 flavours. How many types of cone are there?

Answer:

7 Multiply three numbers. Look for a pair that is easy to multiply first.

(a) $2 \times 5 \times 17 =$

Answer:

(b) $4 \times 25 \times 3 =$

Answer:

(c) $5 \times 8 \times 7 =$

Answer:

(d) $20 \times 5 \times 9 =$

Answer:

(e) $2 \times 45 \times 5 =$

Answer:

(f) $50 \times 3 \times 2 =$

Answer:

- 8 A warehouse has 4 boxes. Each box holds 5 packs. Each pack has 20 pencils. How many pencils are there altogether?

Answer:

- 9 Leo has 7 marbles. Amir has 4 times as many marbles as Leo. Jo has 3 times as many marbles as Amir. How many marbles does Jo have?

Answer:

- 10 Ali picks 35 apples. His dad picks 4 times as many apples as Ali. How many apples do they pick altogether?

Answer:

- 11 Aisha has 8 sweets. Ben has 5 more sweets than Aisha. Cara has 5 times as many sweets as Aisha. Who has more sweets, Ben or Cara? Explain how you know.

Answer:

- 12 Always, sometimes or never? Adding 4 to a whole number gives a bigger answer than multiplying the number by 4.

Answer:

- 13 Priya has 3 hats and 5 tops, so she can make 15 outfits. She buys 1 more hat. How many more outfits can she make?

Answer:

- 14 Which two problems can be solved with 3×5 ? Tick **two** boxes.

A 3 hats and 5 tops. How many outfits?

B Sam has 5 stickers. Tom has 3 more. How many does Tom have?

C Ali has 5 books. Bea has 3 times as many. How many does Bea have?

D 15 sweets are shared between 3 children. How many does each child get?

Answer:

- 15 A menu has 3 starters, some main courses and 2 puddings. There are 30 different three-course meals. How many main courses are there?

Answer: