

## Year 4: Using known facts, word problems and the times table check: answers

Year 4 - Times Tables - Lesson 3.7

**Answers.** Final answers to the worksheet questions. Full step-by-step solutions for every question are free at [websink.site/ks2-sats/maths/year-4/ch03-times-tables/using-known-facts-word-problems-and-the-times-table-check/](https://websink.site/ks2-sats/maths/year-4/ch03-times-tables/using-known-facts-word-problems-and-the-times-table-check/)

### Exercise 3G Using known facts

Non-calculator

**1** Use the fact  $6 \times 4 = 24$  to work out each answer.

(a)  $60 \times 4$

**Answer:** 240

(b)  $6 \times 40$

**Answer:** 240

(c)  $600 \times 4$

**Answer:** 2,400

(d)  $240 \div 4$

**Answer:** 60

(e)  $2,400 \div 4$

**Answer:** 600

(f)  $240 \div 6$

**Answer:** 40

**2** Use the fact  $8 \times 7 = 56$  to work out each answer.

(a)  $80 \times 7$

**Answer:** 560

(b)  $8 \times 70$

**Answer:** 560

(c)  $800 \times 7$

**Answer:** 5,600

(d)  $560 \div 7$

**Answer:** 80

(e)  $560 \div 8$

**Answer:** 70

(f)  $5,600 \div 8$

**Answer: 700**

**3 Quick-fire! Use a times table fact and place value.**

(a)  $30 \times 8$

**Answer: 240**

(b)  $7 \times 50$

**Answer: 350**

(c)  $90 \times 6$

**Answer: 540**

(d)  $4 \times 700$

**Answer: 2,800**

(e)  $110 \times 3$

**Answer: 330**

(f)  $8 \times 90$

**Answer: 720**

**4 Divide. Use a times table fact and place value.**

(a)  $360 \div 6$

**Answer: 60**

(b)  $480 \div 8$

**Answer: 60**

(c)  $2,100 \div 7$

**Answer: 300**

(d)  $5,400 \div 9$

**Answer: 600**

(e)  $880 \div 11$

**Answer: 80**

(f)  $1,200 \div 12$

**Answer: 100**

**5 You know that  $5 \times 8 = 40$ . Use this fact to work out each answer.**

(a)  $6 \times 8$

**Answer: 48**

(b)  $4 \times 8$

**Answer: 32**

(c)  $10 \times 8$

**Answer:** 80

**6** Double or halve a fact you know.

(a)  $6 \times 9$ . You know  $3 \times 9 = 27$ .

**Answer:** 54

(b)  $6 \times 5$ . You know  $12 \times 5 = 60$ .

**Answer:** 30

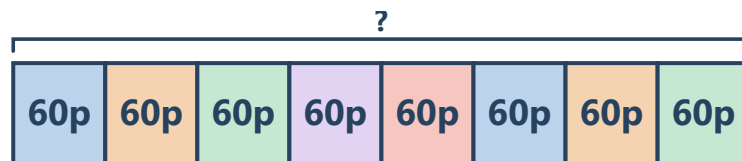
(c)  $8 \times 7$ . You know  $4 \times 7 = 28$ .

**Answer:** 56

(d)  $6 \times 6$ . You know  $12 \times 6 = 72$ .

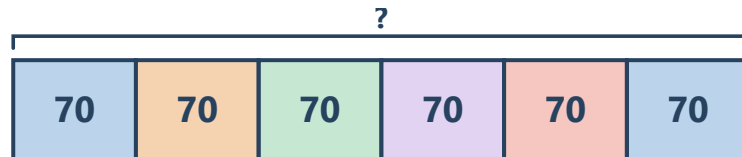
**Answer:** 36

**7** A stamp costs 60p. Hana buys 8 stamps. How much do the stamps cost altogether?



**Answer:** 480p

**8** A bus holds 70 passengers. There are 6 full buses. How many passengers is that altogether?



**Answer:** 420

**9** A school orders 540 pencils. They are packed in boxes of 9. How many boxes does the school get?

**Answer:** 60

**10** Zoe says, " $6 \times 7 = 42$ , so  $60 \times 7 = 42$  too." What mistake did Zoe make? What is  $60 \times 7$ ?

**Answer:** She forgot the zero.  $60 \times 7 = 420$ .

**11** Which one is the odd one out? A  $6 \times 70$  B  $60 \times 7$  C  $42 \times 10$  D  $600 \times 7$

**Answer:** D

**12** Always, sometimes or never? When you multiply a whole number by a multiple of 10, the answer ends in 0.

**Answer:** Always

**13** Use the fact  $7 \times 8 = 56$  to write down **four** more facts about 5,600.

**Answer:**  $700 \times 8 = 5,600$ ;  $8 \times 700 = 5,600$ ;  $5,600 \div 8 = 700$ ;  $5,600 \div 7 = 800$

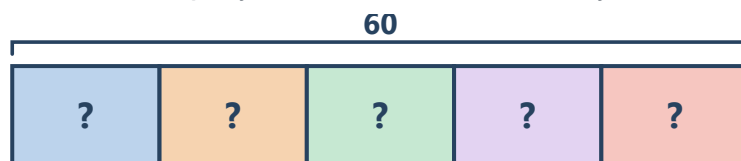
### Exercise 3H Multiplication and division problems Non-calculator

- 1 There are 12 months in one year. How many months are there in 7 years?



**Answer:** 84

- 2 Sam has 60 stickers. He shares them equally between 5 friends. How many stickers does each friend get?



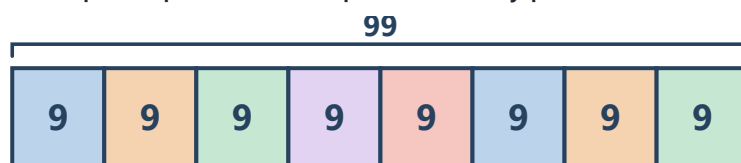
**Answer:** 12

- 3 A book costs £8. A school buys 12 books. How much do the books cost altogether?



**Answer:** £96

- 4 A teacher has 99 pencils. She puts 9 pencils in each pot. How many pots does she fill?

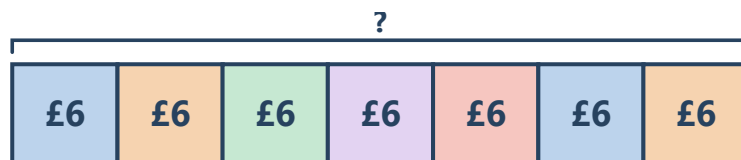


**Answer:** 11

- 5 Aisha buys 4 packs of stickers. There are 12 stickers in each pack. She gives 15 stickers to her cousin. How many stickers does Aisha have left?

**Answer:** 33 stickers

- 6 Cakes cost £6 each. Leo buys 7 cakes. He pays with a £50 note. How much change does he get?



**Answer:** £8

- 7 Mr Khan buys 5 boxes of 8 markers and 3 boxes of 12 markers. How many markers does he buy altogether?

**Answer:** 76 markers

- 8 Mei reads 7 pages every day for 12 days. Ben reads 9 pages every day for 9 days. Who reads more pages? How many more?

**Answer:** Mei, by 3 pages

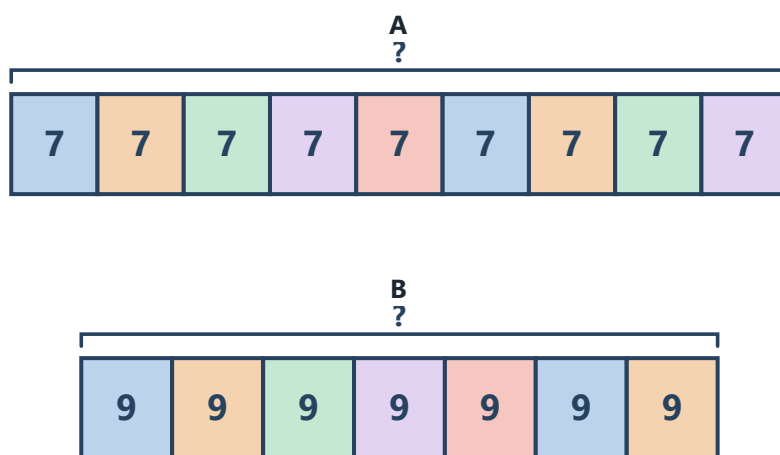
- 9 The table shows the price of a pack of cards.

| Cards    | Price of one pack |
|----------|-------------------|
| Football | £4                |
| Animals  | £7                |

Sam buys 8 packs of football cards and 6 packs of animal cards. How much does he spend?

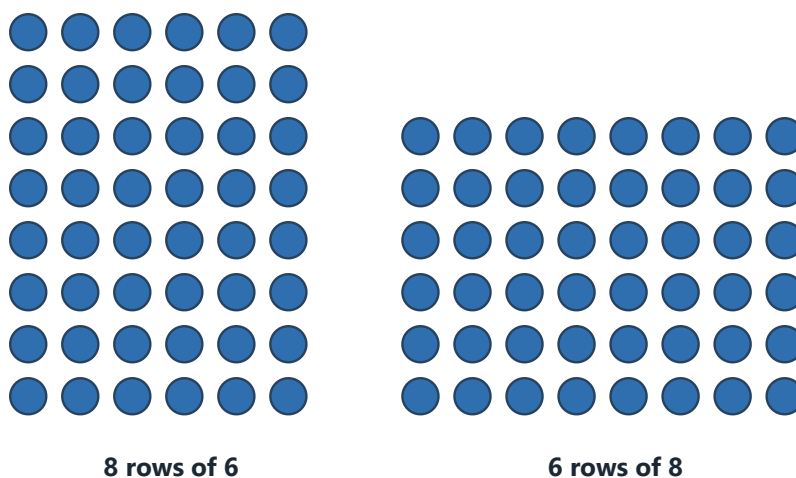
**Answer:** £74

- 10 There are 9 rows of seats in a hall, with 7 seats in each row. Which bar model, A or B, matches this? Do the two bar models give the same total? Explain why.



**Answer:** A. Yes: both totals are 63, because  $9 \times 7 = 7 \times 9$ .

- 11 Anil says, "8 packs of 6 buns is the same number of buns as 6 packs of 8 buns." Is Anil right? Prove it.



**Answer:** Yes. Both are 48.

- 12 Which two of these problems need **division**? Tick **two** boxes. You do not need to work out the answers.
- A** 6 bags have 9 apples in each bag. How many apples are there?
  - B** 42 pens are shared equally between 6 children. How many pens does each child get?
  - C** A rope 56 m long is cut into pieces that are each 7 m long. How many pieces are there?
  - D** A train has 8 carriages with 12 seats in each carriage. How many seats are there?

**Answer:** B and C

- 13** A farmer has 10 animals. Some are chickens and some are cows. There are 28 legs altogether. A chicken has 2 legs and a cow has 4 legs. How many chickens and how many cows are there?

**Answer:** 6 chickens and 4 cows

**Exercise 31 Times tables check practice: 25 questions, 6 seconds each** Non-calculator

- 1 Set A** (25 questions): a warm-up with the easier tables. Give yourself **6 seconds** for each question (2 minutes 30 seconds in total). Cover the answers and write your answers on paper.

(a)  $9 \times 2 =$

**Answer:** 18

(b)  $5 \times 4 =$

**Answer:** 20

(c)  $3 \times 3 =$

**Answer:** 9

(d)  $4 \times 11 =$

**Answer:** 44

(e)  $11 \times 2 =$

**Answer:** 22

(f)  $3 \times 5 =$

**Answer:** 15

(g)  $10 \times 5 =$

**Answer:** 50

(h)  $3 \times 10 =$

**Answer:** 30

(i)  $7 \times 5 =$

**Answer:** 35

(j)  $8 \times 4 =$

**Answer:** 32

(k)  $5 \times 11 =$

**Answer:** 55

(l)  $10 \times 11 =$

**Answer:** 110

(m)  $4 \times 2 =$

**Answer: 8**

(n)  $3 \times 4 =$

**Answer: 12**

(o)  $2 \times 5 =$

**Answer: 10**

(p)  $10 \times 9 =$

**Answer: 90**

(q)  $3 \times 7 =$

**Answer: 21**

(r)  $9 \times 3 =$

**Answer: 27**

(s)  $6 \times 4 =$

**Answer: 24**

(t)  $5 \times 9 =$

**Answer: 45**

(u)  $11 \times 3 =$

**Answer: 33**

(v)  $4 \times 4 =$

**Answer: 16**

(w)  $12 \times 10 =$

**Answer: 120**

(x)  $8 \times 11 =$

**Answer: 88**

(y)  $4 \times 12 =$

**Answer: 48**

**2 Set B** (25 questions): a mix of all the tables. Give yourself **6 seconds** for each question (2 minutes 30 seconds in total). Cover the answers and write your answers on paper.

(a)  $3 \times 7 =$

**Answer: 21**

(b)  $11 \times 9 =$

**Answer: 99**

(c)  $8 \times 10 =$

**Answer: 80**

(d)  $2 \times 8 =$

**Answer: 16**

(e)  $2 \times 3 =$

**Answer: 6**

(f)  $10 \times 9 =$

**Answer: 90**

(g)  $11 \times 7 =$

**Answer: 77**

(h)  $5 \times 10 =$

**Answer: 50**

(i)  $5 \times 9 =$

**Answer: 45**

(j)  $7 \times 7 =$

**Answer: 49**

(k)  $10 \times 11 =$

**Answer: 110**

(l)  $2 \times 5 =$

**Answer: 10**

(m)  $11 \times 8 =$

**Answer: 88**

(n)  $6 \times 3 =$

**Answer: 18**

(o)  $7 \times 5 =$

**Answer: 35**

(p)  $3 \times 8 =$

**Answer: 24**

(q)  $12 \times 6 =$

**Answer: 72**

(r)  $6 \times 7 =$

**Answer: 42**

(s)  $9 \times 2 =$

**Answer: 18**

(t)  $8 \times 6 =$

**Answer: 48**

(u)  $11 \times 3 =$

**Answer: 33**

(v)  $8 \times 5 =$

**Answer: 40**

(w)  $9 \times 4 =$

**Answer: 36**

(x)  $4 \times 10 =$

**Answer: 40**

(y)  $3 \times 3 =$

**Answer: 9**

**3 Set C** (25 questions): the tricky tables 6, 7, 8, 9 and 12. Give yourself **6 seconds** for each question (2 minutes 30 seconds in total). Cover the answers and write your answers on paper.

(a)  $7 \times 3 =$

**Answer: 21**

(b)  $2 \times 9 =$

**Answer: 18**

(c)  $8 \times 2 =$

**Answer: 16**

(d)  $9 \times 6 =$

**Answer: 54**

(e)  $12 \times 6 =$

**Answer: 72**

(f)  $12 \times 7 =$

**Answer: 84**

(g)  $7 \times 10 =$

**Answer: 70**

(h)  $6 \times 7 =$

**Answer: 42**

(i)  $6 \times 8 =$

**Answer: 48**

(j)  $12 \times 11 =$

**Answer: 132**

(k)  $12 \times 12 =$

**Answer: 144**

(l)  $11 \times 8 =$

**Answer: 88**

(m)  $8 \times 10 =$

**Answer: 80**

(n)  $12 \times 4 =$

**Answer: 48**

(o)  $12 \times 8 =$

**Answer: 96**

(p)  $7 \times 8 =$

**Answer: 56**

(q)  $7 \times 9 =$

**Answer: 63**

(r)  $9 \times 5 =$

**Answer: 45**

(s)  $2 \times 12 =$

**Answer: 24**

(t)  $12 \times 9 =$

**Answer: 108**

(u)  $6 \times 5 =$

**Answer: 30**

(v)  $4 \times 9 =$

**Answer: 36**

(w)  $6 \times 6 =$

**Answer: 36**

(x)  $9 \times 3 =$

**Answer: 27**

(y)  $5 \times 7 =$

**Answer: 35**

**4 Set D** (20 questions): division facts and missing numbers. Try to answer each one in 10 seconds.

(a)  $56 \div 7 =$

**Answer: 8**

(b)  $6 \times \boxed{?} = 36$

**Answer: 6**

(c)  $\boxed{?} \times 6 = 24$

**Answer: 4**

(d)  $\boxed{?} \div 7 = 10$

**Answer: 70**

(e)  $132 \div \boxed{?} = 12$

**Answer: 11**

(f)  $30 \div 6 =$

**Answer: 5**

(g)  $11 \times \boxed{?} = 121$

**Answer: 11**

(h)  $\boxed{?} \times 3 = 21$

**Answer: 7**

(i)  $\boxed{?} \div 3 = 10$

**Answer: 30**

(j)  $30 \div \boxed{?} = 6$

**Answer: 5**

(k)  $99 \div 11 =$

**Answer: 9**

(l)  $5 \times \boxed{?} = 40$

**Answer: 8**

(m)  $\boxed{?} \times 8 = 32$

**Answer: 4**

(n)  $\boxed{?} \div 4 = 11$

**Answer: 44**

(o)  $77 \div \boxed{?} = 11$

**Answer:** 7

(p)  $60 \div 10 =$

**Answer:** 6

(q)  $6 \times \boxed{?} = 36$

**Answer:** 6

(r)  $\boxed{?} \times 4 = 16$

**Answer:** 4

(s)  $\boxed{?} \div 6 = 11$

**Answer:** 66

(t)  $120 \div \boxed{?} = 12$

**Answer:** 10

- 5 In the times tables check there are 25 questions and you have 6 seconds for each. How many seconds is that altogether? Write your answer in minutes and seconds too.

**Answer:** 150 seconds = 2 minutes 30 seconds

- 6 Show **two different ways** to work out  $7 \times 8$ .

**Answer:** 56

- 7 Dev says, "There are 16 tricky facts to learn, because the grid below has 16 boxes." Explain why Dev only needs to learn 10 facts.

| $\times$ | 6  | 7  | 8  | 9  |
|----------|----|----|----|----|
| 6        | 36 | 42 | 48 | 54 |
| 7        | 42 | 49 | 56 | 63 |
| 8        | 48 | 56 | 64 | 72 |
| 9        | 54 | 63 | 72 | 81 |

**Answer:** Because  $6 \times 7 = 7 \times 6$  (and so on), only 10 of the 16 facts are different.