**NUMBER: CALCULATIONS** 

**SECTION 1** Mental calculations

**SECTION 2** Multiplication

**SECTION 3** Division I

**SECTION 4** Division II

**SECTION 5** Rounding

**SECTION 6** Money and 'real life' problems



### **NUMBER: CALCULATIONS**

SUGGESTED TIME

6 hours

#### **TEACHING OBJECTIVES**

- Add several numbers.
- Add/subtract a multiple of 10 or 100 and adjust.
- Use relationship between addition and subtraction.
- Extend written methods to HTU  $\times$  U and U.t  $\times$  U.
- Develop and refine written methods for division.
- Extend written methods to HTU ÷ U (whole number remainder).
- Use all four operations to solve money or 'real life' word problems.
- Choose appropriate operations and calculation methods.
- Develop calculator skills and use a calculator effectively.
- Round whole numbers and decimals.
- Check by adding in reverse order, including with calculator.

**SECTION 1** Mental calculations

**SECTION 2** Multiplication

SECTION 3 Division I

**SECTION 4** Division II

**SECTION 5** Rounding

**SECTION 6** Money and 'real life' problems

### **HOMEWORK**

- Section 1, Star Challenges 1 and 2 revise mental addition and subtraction.
- Some pupils will need basic practice exercises in written methods of multiplication and division.
- Consolidate the solving of word problems, from the Star Challenges in Sections 2, 4, 5 and 6.



# **Unit** 10

# **Checklist for pupils**

Mental calculations	
You will: <ul><li>add several numbers in your head</li><li>add multiples of 10 or 100</li><li>use the links between addition and subtraction</li></ul>	
Multiplication	
You will:  use a written method of multiplication solve real life problems	
Division I and II	
You will:  use estimation to check answers  use a written method of division	
Rounding	
You will:  round decimals to the nearest whole number  round numbers to the nearest 10 or 100  use a written method of division	
Money and 'real life' problems	
<ul> <li>You will:</li> <li>practise using mental, written and calculator methods</li> <li>use addition, subtraction, multiplication or division to solve problems</li> </ul>	word



# SECTION 1: MENTAL CALCULATIONS

### **DIRECT TEACHING POINTS**

- Revise the range of mental strategies. You will need to refer to Section 6 of the Framework for teaching mathematics from Reception to Year 6.
- Consolidate recall of basic number bonds. Use exercises 1 and 2 as the basis of oral work.
- Revise compensation methods, for example, adding and subtracting near multiples of 10 and 100. Exercises 3 and 4 provide practice.
- Exercise 5 reinforces the relationship between addition and subtraction.

For example, 
$$7 + 5 = 12$$

$$5 + 7 = 12$$

$$12 - 7 = 5$$

$$12 - 5 = 7$$

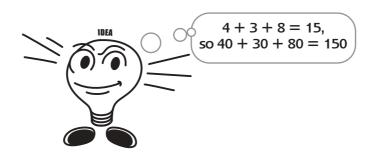
### **Mental calculations**

= ......

### Adding numbers in your head

= ......

### Adding multiples of 10 or 100



### **Mental calculations**

Adding and subtracting 9, 19, 29, ... 11, 21, 31, ...

$$345 + 30 = 375$$
, so  $345 + 29 = 374$ 

<sup>2</sup> 543 + 39 = ......

$$6 752 + 39 = 1$$

Example

Example

$$471 - 29 = ?$$

345 + 29 = ?

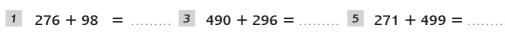
$$471 - 30 = 441$$
, so  $471 - 29 = 442$ 

$$13 703 - 51 = 1$$

Other adjustments when adding or subtracting

Example

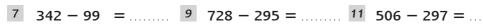
$$268 + 100 = 368$$
, so  $268 + 95 = 363$ 



OHE L PFULD



$$579 - 200 = 379$$
, so  $579 - 196 = 383$ 





# 10

### **Mental calculations**

### 5 Using related number facts

If you are given any one of these facts, you should be able to write down the other three facts.



### Example

$$55 + 30 = 85$$
  
30 + 55 = 85 tells us that  $85 - 30 = 55$ 

$$85 - 55 = 30$$

Write down three number facts related to this.

### **Mental calculations**



### One-star mental challenge





14-16 correct 1 star

Write down the four number facts that connect these numbers.



#### Two-star mental challenge





15-16 correct 2 stars 12-14 correct 1 star

$$11 714 + 273 = 987$$

12 64

28

36

92

Write down some number facts that connect these numbers eq. 28 + 36 = 64.



#### **SECTION 2: MULTIPLICATION**

#### **DIRECT TEACHING POINTS**

- Make sure that pupils' recall of multiplication bonds is secure before moving on to written methods of multiplication.
- Pupils need an efficient, accurate written method for multiplication. You must decide which pupils should consolidate the grid method (Unit 6) and who might move on to a compact method. It is better that pupils are secure in the grid method rather than rushed on to a compact method that they do not fully understand. You may need to alter the layout to match that with which pupils are familiar.

- For some pupils you will need to model multiplication of decimals using the grid method.
- Remind pupils to use estimates to check calculations this helps locate the decimal point.
- Star Challenges 3, 4, 5 and 6 provide some simple applications of multiplication. All pupils will need practice at solving word problems in preparation for answering test questions.



multiplication multiply multiple product

# Multiplication

Multiplication



1 231 × 3 4 581 × 8

7 547 × 5

<sup>2</sup> 342 × 5

<sup>5</sup> 215 × 3

8 823 × 6

<sup>3</sup> 175 × 7

6 324 × 9

9 294 × 7

### Multiplication

2

Multiplying money and measurements

You may be able to work some out in your head.

PART 3 UNIT 10 SECTION 2

# Multiplication



### Solving problems



5 correct 2 stars 4 correct 1 star

- 1 Trendy Sports sells table tennis balls in boxes that each hold 5 balls. The Flashy Sports Shop buys 135 boxes. How many table tennis balls did the shop buy?
- The Bulk Sports Factory makes table tennis balls. The balls are packed in boxes of 144. Trendy Sports buys 7 boxes. How many table tennis balls are there in 7 boxes?
- Melanie sells TVs in her shop.
  She buys some TVs, costing £357 each.
  Work out the cost of 5 TVs.



How many tiles are there in this diagram?

Vikram wants to measure the length of his lawn. He lays garden canes end to end. Each cane is 1.7 m long. His lawn is 9 canes long.

How long is the lawn in metres?

# 10

### Multiplication



### **Different totals**



\*\* 0=

14 marks 2 stars11-13 marks 1 star

1	(a) Make	multiplication	questions	using	the	digits
---	----------	----------------	-----------	-------	-----	--------

(6 marks)

×6	× 6 =
----	-------

(1 mark)

2	(a) Make six different multiplications using the digits <b>3, 4, 7</b> .	(6 marks)

×	=
---	---

(1 mark)

### Multiplication



### 'Real life' problems





- 1 A garden cane is 1.3 m long. My lawn is exactly 6 canes long. How long is the lawn in metres?
- 2 My shoe is 0.3 m long. The garden path is 9 shoe lengths long. How long is the garden path?
- <sup>3</sup> My pencil is 9.2 cm long. My desk is 6 pencil lengths wide. How wide is the desk in cm?
- 4 One brick is 8.5 cm long. 7 bricks are placed side by side, with 1 cm of mortar in between. Work out the distance across the 7 bricks.



### Arithmetic puzzles





All correct 1 star

1 Work out the missing number.

2 What are the two missing operations?

3 Work out the missing digit. 2 5



#### **DIRECT TEACHING POINTS**

- Teach the variety of language and notation associated with division. Section 4, exercise 2 and Star Challenge 8 provide practice.
- Consolidate the recall of division facts and the relationship between multiplication and division, for example 45 ÷ □ = 9 is equivalent to 9 × □ = 45 or 45 ÷ 9 = □.
- Discuss with the pupils which calculations ought to be done mentally and which need a written method. Note that the support sheets do not always serve as pupil answer sheets.
- Encourage pupils to precede any written calculation with an estimate. This can provide a focus for oral work.
- Support pupils in refining their written method of division. This may be 'chunking'. Chunking needs to be efficient; that is. not single multiples but progressing through (say) 10 multiples to a 'chunk' based on an estimate. Some pupils may be comfortable with a standard method.

  Demonstrate methods appropriate to pupils in your group.

135 ÷ 6

5 × 6 
$$\frac{-3}{10}$$

10 × 6  $\frac{-6}{45}$ 

10 × 6  $\frac{-6}{10}$ 

3 ixes in 135 and 3 leftover.

5 × 6  $\frac{-3}{15}$ 

2 × 6  $\frac{-1}{2}$ 

So, 135 ÷ 6 = 22 rem 3

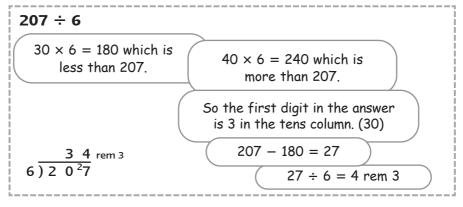
167 ÷ 7

10 × 7 = 70 20 × 7 = 140 30 × 7 = 210

1 6 7

167 is between 140 and 210, so the answer is between 20 and 30.

3 × 7 
$$\frac{-1}{6}$$
 This makes it quicker to start by taking away a chunk of 20 × 7.





divide division remainder share



### **Division I**

### Division using related multiplication facts

$$2 \quad 35 \div 5 = \dots \qquad 6 \quad 54 \div 9$$

$$3 \ 28 \div 7 = \dots$$
  $7 \ 42 \div 7$ 

## Division



$$189 \div 7 = ?$$

$$4 65 \div 3 = ?$$

$$^{2}$$
 142 ÷ 5 = ?

$$5 117 \div 6 = ?$$

$$3 71 \div 4 = ?$$

$$6 79 \div 7 = ?$$

### **Division I**

### Estimate then work out



$$^{3}$$
 259 ÷ 5

$$^{3}$$
 259 ÷ 7



### **Increasing in difficulty**





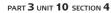
Complete these division questions.

You should be able to do some of them in your head.

12 correct 1 star

$$^{2}$$
 22 ÷ 7

$$^{3}$$
 23 ÷ 5





### **Division II**

### **Review of division**



Complete these questions. You choose your method. Show any working out.

### **Division II**

You choose which method to use

Share 20 between 4

Divide 20 by 4

20 ÷ 4

20 divided by 4

<sup>1</sup>/<sub>4</sub> of 20

These all mean 'How many 4s are there in 20?'



If you work the answer out in your head, write down the answer. Otherwise, show how you worked it out.

- Divide 24 by 4
- 5 31 divided by 10
- <sup>9</sup> 643 ÷ 7

- <sup>2</sup> 13 ÷ 5
- <sup>6</sup> 578 ÷ 8
- 10 How many 8s are there in 256?

- <sup>3</sup> Share 22 among 3
- <sup>7</sup> 86 ÷ 2
- 4 27 ÷ 3
- <sup>8</sup> 245 ÷ 6



### You choose the method





7-8 correct 1 star

- 1 Divide 48 by 4
- 4 35 ÷ 7
- 7 329 ÷ 8

<sup>2</sup> 37 ÷ 5

- <sup>5</sup> 87 ÷ 6
- 8 How many 9s are there in 431?

- <sup>3</sup> Share 29 between 3
- 6 236 ÷ 4

# 10

### **Division II**



### **Word problems**





All correct 2 stars 4 correct 1 star

1 Carol bought 6 CDs.
They were all the same price.
She paid £84.

What was the cost of one CD?

Sue orders goods for a large supermarket. She ordered 864 eggs last week. The eggs came in six identical boxes. How many eggs were in each box?

Earl bought 5 birthday cards. They were all the same price. Earl got 5p change from £1.

What was the cost of one birthday card?

Dad bought 7 plane tickets. The total cost was £875.

What was the cost of one ticket?

Bill bought 8 identical TVs to sell in his shop. The total cost was £992.

Work out the cost of one TV.



### **SECTION 5: ROUNDING**

### **DIRECT TEACHING POINTS**

- You need to explain and demonstrate the ideas of rounding. Many of the exercises in this section can be done orally, but number lines provide a useful support. Use exercise 1 on an OHT.
- Discuss and clarify pupils' understanding of examples such as 'round 546 to the nearest 10' (550) and 'round 546 to the nearest 100' (500). Compare the two answers. What happens if you round 550 to nearest hundred?
- You need to explain the convention 'rounding 5s upwards'.
- Make sure that all pupils try some of the Star Challenges 10, 11, 12 which use different contexts for rounding.



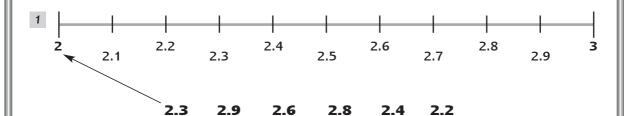
round to the nearest whole number round to the nearest 10 round to the nearest 100 round to 1 decimal place

PART 3 UNIT 10 SECTION 5

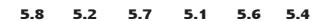
### **Rounding numbers**

### 1 Rounding diagrams

Complete the diagrams by drawing arrows from each decimal to the nearest whole number on the number lines.

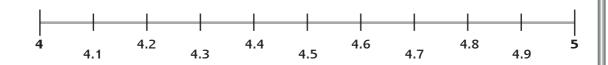








7.1 7.8 7.3 7.6 7.7



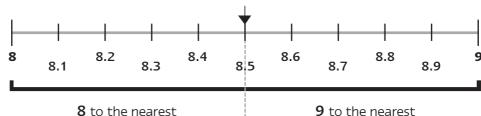
4.7 4.2 4.9 4.3 4.4

2

### **Rounding rules**

### Example

Numbers that end in .5 are exactly halfway between two whole numbers. It has been agreed that everyone will round *up* these middle numbers; 8.5 is rounded to 9, and so on.



**8** to the nearest whole number

**9** to the nearest whole number

Round each of these numbers to the nearest whole number.

### Batch A

- 1 2.5 .....
- 5 9.2 .....
- 9 6.1 .....

- 2 5.5 .....
- 6 3.7 .....
- 10 13.2 .....

- 3 4.5 .....
- 7 12.3 .....
- 11 12.5 .....

- 4 2.7 .....
- 8 10.5 .....
- 12 16.4 .....

### Batch B

1 4.14

5 8.82

9 1.7623

2 6.25

- 6 2.5632
- 10 2.34

- <sup>3</sup> 7.66
- 7 13.745
- 11 1.49

4 9.34

8 11.68

12 13.52



### Car engine capacities



All correct 1 star

For each car, give the engine capacity to the nearest litre.

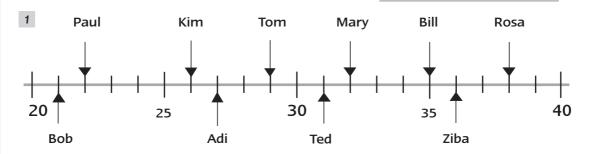
Car	Engine capacity	Capacity to nearest litre
Skoda 1.3 LX	1.3 /	1 litre
Ford Fiesta	1.117 <i>l</i>	1
Morgan 1.8 Roadster	1.8 /	1
Rover 1.4 GTa	1.4 /	I
Morris Ital	1.695 <i>l</i>	1
Nissan Sunny	1.809 l	1
Opel Senator	2.774	1
Renault Megane	1.998 l	1
Peugeot 1.6 GTi	1.6 l	1
Fiat Tipo	1.372 l	1
Jaguar XJS3	3.442 l	I



Rounding to the nearest 10 or 100



28-29 correct 2 stars 25-27 correct 1 star



Copy and complete this table:

Name	Adi	Ted	Bob	Ziba	Rosa	Mary	Kim	Paul	Tom	Bill
Age										
Age to nearest 10 years										

The price of this TV set is £539.



- (a) Is £539 nearer to £500 or to £600?
- (b) What is the TV's price to the nearest £100?
- (c) Is £539 nearer to £530 or £540?
- (d) What is the TV's price to the nearest £10?

3



The price of this washing machine is £685.

- (a) What is its price to the nearest £100?
- (b) What is its price to the nearest £10?

4





- (a) What is its price to the nearest £100?
- (b) What is the price to the nearest £50?
- (c) What is the price to the nearest £10?



### **Football attendance**



19-20 correct 2 stars 16-18 correct 1 star

Game	Attendance	Attendance to nearest 100	Attendance to nearest 1000
Millwall v Cambridge	4124	4100	
Walsall v Wigan	4769		
Peterboro v Northampton	5231		5000
Oxford v Oldham	2807		
Bristol R v Colchester	5696		
Port Vale v Notts County	3580	3600	
Reading v Bury	4155		
Stoke v Bristol City	7538		
Swindon v Luton	5855		
Swansea v Brentford	5540	5500	
Bournemouth v Rotherham	3782		
Wycombe v Wrexham	5490		



# SECTION 6: MONEY AND 'REAL LIFE' PROBLEMS

### **DIRECT TEACHING POINTS**

- Teach pupils how to tackle word problems.
  - pupils need practice in extracting information
  - deciding on an appropriate calculation
  - and then deciding the method of calculation, mental, written or calculator
  - they should interpret the answer in the context of the problem.
- Teach calculator skills, for example,  $\Box$  to cancel an entry, and ensure that pupils use calculators appropriately and efficiently.



how much? how many?

PART 3 UNIT 10 SECTION 6

# Money and 'real life' problems

### 1 Dividing with a calculator



Use your calculator to find the answers to these questions.

1 
$$254 \div 5 = ?$$

$$3 5 \div 8 = ?$$

Check your answers. If you have any wrong, see your teacher. The most common mistake is entering the numbers in the wrong order.

Now use your calculator to find the answers to these questions. Give your answers to the nearest whole number.

# Choosing the correct operation $(+, -, \times, \div)$

First write down the calculation you need to do. Work out the answer.

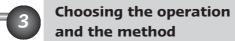
- Mary had £50 in her Savings Bank. She drew out £15. How much was left in the Bank?
- Peter gets £3.50 a week pocket money.
  On Friday, he looked after his baby sister.
  His mother gave him £2.25, as well as his pocket money.
  How much did she give him?
- Sue's mother is twice as old as Sue. Sue is 28 years old. How old is her mother?
- Dave earned £750.

  He gave £210 to his mother.

  How much did he have left?
- Grandmother gave £820 to be shared equally between four grandchildren.

  How much did each one get?

# Money and 'real life' problems





Write down the calculation you need to do. Work out the calculation by the most suitable method.

Plok is 165 Earth years old. Zuk is 28 years older than Plok.

How old is Zuk?

Starship 2001 is the biggest.
There are 48 officers and 764 crew on board.

2 How many officers and crew are there on board altogether?

How many more crew members are there than officers on Starship 2001?

Ruff from the planet Mudd is a crew member on Starship 2001. 198 of the 764 crew members come from Mudd.

How many crew members do not come from Mudd?

PART 3 UNIT 10 SECTION 6

# Money and 'real life' problems



### **Starship Challenges**



All correct 2 stars 5 correct 1 star

- On Starship 2001, 29 officers and 237 crew members come from the planet Klar.

  How many on Starship 2001 come from Klar?
- Apollo is the oldest on board Starship 2001.

  Mercury is the youngest. Mercury is 46 Earth years old.

  Apollo is 177 years older than Mercury.

  How old is Apollo?

Numbers of explorers in the Andromeda Sector in Year 2145:

1756 officers23 818 crew members785 trainees

- How many crew members and officers were there altogether in Andromeda in Year 2145?
- 4 How many explorers were there altogether in Andromeda in Year 2145?
- In Spirea there are three times as many trainees as Andromeda. How many trainees are there in Spirea?
- Half the crew members in Andromeda are more than 100 years old. How many crew members are more than 100 years old?

### Section 1

### **Mental calculations**

- Adding numbers in your head
  - 1 15

6 23

2 20

7 17

3 15

8 20

4 20

\_\_\_

\_\_\_\_

9 20

5 15

- 10 25
- Adding multiples of 10 or 100
  - 1 14

6 900

2 140

7 160

3 100

8 1300

4 120

120

9 180

5 140

- 10 200
- Adding and subtracting 9, 19, 29, ... 11, 21, 31, ...
  - 1 346

4 666

368

2 582

- 5 499
- 8 582

3 279

- 6 791
- 9 177

10 214

- 12 544
- 14 237

11 154

- 13 652
- 15 832
- 4 Other adjustments when adding or subtracting
  - 1 374

- 3 786
- 5 770

2 570

- 4 788
- 6 1028

7 243

- 9 433
- 11 209

8 210

- 10 466
- 12 599

### **Mental calculations**

continued

### Using related number facts

$$3 143 + 257 = 400 400 - 257 = 143$$

$$400 - 143 = 257$$

$$126 + 249 = 375$$

$$600 - 357 = 243$$
  $600 - 243 = 357$ 

6 
$$20 \times 5 = 100$$
  $5 \times 20 = 100$ 

$$100 \div 5 = 20$$
  $100 \div 20 = 5$ 

### Section 2

### Multiplication

- 1 Multiplication
  - 1 693
- 4 4648
- 7 2735

- 2 1710
- 5 645
- 8 4938

- 3 1225
- 6 2916
- 9 2058

### Multiplying money and measurements

- 1 £9.60
- 4 36.8 m
- 7 £42.60

- <sup>2</sup> £16.20
- <sup>5</sup> 31.8 m
- 8 43.4 m

- <sup>3</sup> £24.50
- 6 £48
- <sup>9</sup> 14.7 m

### Section 3

### **Division I**

- Division using related multiplication facts
  - 1 4
- 5 9
- 9 8

- 2 7
- 6 6
- 10 3

- 3 4
- 7 6
- 11 5

- 4 3
- 8 6
- 12 10

- 2 Division
  - 1 12 rem 5
- 4 21 rem 2
- <sup>2</sup> 28 rem 2
- <sup>5</sup> 19 rem 3
- <sup>3</sup> 17 rem 3
- 6 11 rem 2
- 3 Estimate then work out
  - Batch A: 1 15 rem 3 2 20 rem 2 3 51 rem 4 4 46 rem 2
  - Batch B: 1 21 rem 1 2 38
- <sup>3</sup> 34 rem 3 4 49
- Batch C: 1 20 rem 7 2 61 rem 2 3 37

### **Section 4**

### **Division II**

- 1 Review of division
  - 1 24 rem 2
- 4 60 rem 7
- 7 95
- 10 41 rem 1

- 2 55
- <sup>5</sup> 47 rem 1
- 8 117
- 11 130 rem 2

- <sup>3</sup> 45 rem 2
- 6 94 rem 2
- <sup>9</sup> 28 rem 2
- 12 135 rem 3

- You choose which method to use
  - 1 6
- <sup>5</sup> 3 rem 1
- <sup>9</sup> 91 rem 6

- <sup>2</sup> 2 rem 3
- 6 72 rem 2
- 10 32

- <sup>3</sup> 7 rem 1
- 7 43
- 4 9
- 8 40 rem 5

### Section 5

### **Rounding numbers**

### **Rounding rules**

### Batch A

- 1 3
- 9 6

- 2 6
- 6 4
- 10 13

- 3 5
- 7 12
- 11 13

- 4 3
- 8 11
- 12 16

#### Batch B

- 1 4
- 9 2

- 2 6
- 10 2

- 3 8
- 7 14
- 11 1

- 4 9
- 8 12
- 12 14

### Section 6

### Money and 'real life' problems

Dividing with a calculator

- 1 50.8
- 3 0.625
- 5 23
- 7 527

- 2 17.5
- 4 22
- 6 840
- 8 184

Choosing the correct operation  $(+, -, \times, \div)$ 

- 1 (a) 50 15
- (b) £35
- 4 (a) 750 210
- (b) £540

- $^{2}$  (a) 3.50 + 2.25
- (b) £5.75
- <sup>5</sup> (a) 820 ÷ 4
- (b) £205

- <sup>3</sup> (a) 2 × 28
- (b) 56

Choosing the operation and the method

- 1 (a) 165 + 28
- (b) 193
- <sup>2</sup> (a) 48 + 764
- (b) 812
- <sup>3</sup> (a) 764 48
- (b) 716
- <sup>4</sup> (a) 764 198
- (b) 566

# **10**

# Unit 10 Answers

# CHALLENG M

### Star Challenge answers

### One-star mental challenge

14-16 correct 1 star

$$590 + 131 = 721$$

$$721 - 590 = 131$$

$$721 - 131 = 590$$



### Two-star mental challenge

15-16 correct 2 stars 12-14 correct 1 star

### 12 Any four of the following number facts:

$$28 + 36 = 64$$

$$64 + 28 = 92$$

$$36 + 28 = 64$$

$$28 + 64 = 92$$

$$64 - 28 = 36$$

$$92 - 28 = 64$$

$$64 - 36 = 28$$

$$92 - 64 = 36$$



### Solving problems

675 <sup>3</sup> £1785 <sup>5</sup> 15.3 m

2 1008

4 266

5 correct 2 stars 4 correct 1 star



### Star Challenge answers

continued

### Different totals

14 marks 2 stars 11-13 marks 1 star

(b) largest is 3192

$$^{2}$$
 (a) 34  $\times$  7 = 238

$$43 \times 7 = 301$$

$$37 \times 4 = 148$$

$$73 \times 4 = 292$$

$$47 \times 3 = 141$$

$$74 \times 3 = 222$$

### (b) smallest is 141



### 'Real life' problems

All correct 1 star





### Arithmetic puzzles

All correct 1 star



#### 1 6

$$^2$$
 × and  $-$ 

# 12 correct 1 star

# Increasing in difficulty

### 4 3 rem 4



### You choose the method

7-8 correct 1 star

- 1 12
- 4 5

6 59

<sup>7</sup> 41 rem 1

<sup>2</sup> 7 rem 2

<sup>3</sup> 9 rem 2

- <sup>5</sup> 14 rem 3
- 8 47 rem 8



### Word problems

All correct 2 stars 4 correct 1 star

- <sup>1</sup> £14
- 2 144
- <sup>3</sup> 19p
- 4 £125
- <sup>5</sup> £124

# UNALLENCE 10

### Star Challenge answers

### continued

### Car engine capacities

All correct 1 star

Fiesta	Morgan	Rover	Morris	Nissan	Opel
1 litre	2 l	1 <i>l</i>	2 I	2 l	3 I
Renault 2 I	Peugeot 2 I	Fiat 1 <i>l</i>	Jaguar 3 l		



### Rounding to the nearest 10 or 100

28-29 correct 2 stars 25-27 correct 1 star

1 Ziba Rosa Mary Name Adi Ted Bob Kim **Paul** Tom Bill Age 27 31 21 36 38 32 26 22 29 35 Age to 30 nearest 30 20 40 40 30 30 20 40 30 10 years

- <sup>2</sup> (a) £500
- (b) £500
- (c) £540
- (d) £540

- <sup>3</sup> (a) £700
- (b) £690
- 4 (a) £200
- (b) £150
- (c) £160



### Football attendance

19-20 correct 2 stars 16-18 correct 1 star

Nearest 100	Nearest 1000
4100	4000
4800	5000
5200	5000
2800	3000
5700	6000
3600	4000
4200	4000
7500	8000
5900	6000
5500	6000
3800	4000
5500	5000



### **Starship Challenges**

All correct 2 stars 5 correct 1 star

- 1 29 + 237 = 266
- 4 1756 + 23 818 + 785 = 26 359
- 2 46 + 177 = 223
- 5 3 × 785 = 2355
- <sup>3</sup> 1756 + 23 818 = 25 574
- $6 23818 \div 2 = 11909$