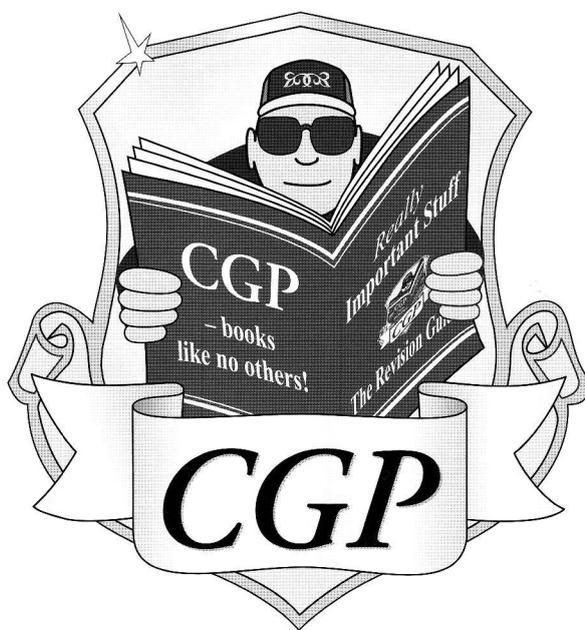


Name: OLIVER Hoare.....

Class:

Key Stage One Maths



Mental Workout Year 1

Contents

Part 1 — Number, Word and 'Real-life' Problems

Exercises 1 - 28 1 - 28

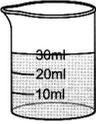
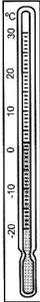
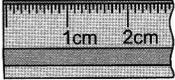
Part 2 — Time Yourself Tests

Tests 1 - 24 29 - 34

Answers 35 - 36

Individual Record Sheet Inside Back Cover

Useful Information

Weight  g = gram kg = kilogram	Volume  ml = millilitres l = litres	Temperature  °C = degrees Celsius
Length  cm = centimetres m = metres	Money  p = pence £ = pounds	

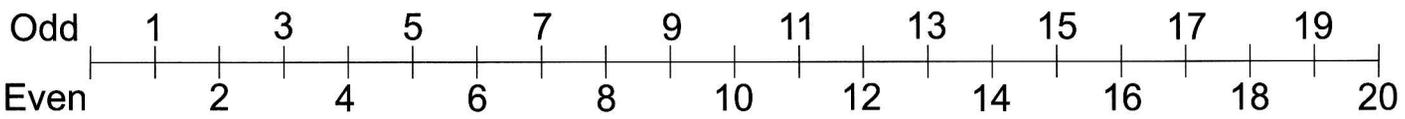
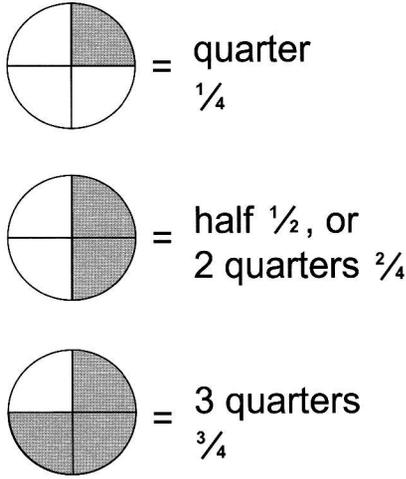
add
plus all mean +
sum

times
multiply all mean ×
groups of

minus
subtract all mean -
take away

divide
share all mean ÷

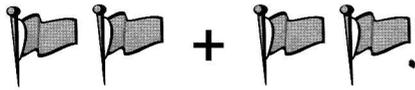
- | | | |
|---------|--------------|-------------|
| 1 one | 11 eleven | 30 thirty |
| 2 two | 12 twelve | 40 forty |
| 3 three | 13 thirteen | 50 fifty |
| 4 four | 14 fourteen | 60 sixty |
| 5 five | 15 fifteen | 70 seventy |
| 6 six | 16 sixteen | 80 eighty |
| 7 seven | 17 seventeen | 90 ninety |
| 8 eight | 18 eighteen | 100 hundred |
| 9 nine | 19 nineteen | |
| 10 ten | 20 twenty | |



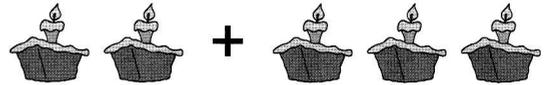
A START UP



1. $2 + 2 =$



4. $2 + 3 =$



2. $4 - 1 =$



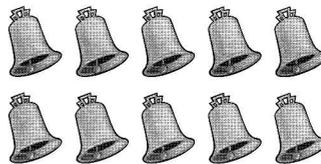
5. $1 + 2 =$



3. $3 - 1 =$



6. $10 - 0 =$



Marks

B INTO GEAR



1. Double four.

3. To six add three.

2. Ten take away five.

4. From five take three.

Marks

C TOUGH CHALLENGE



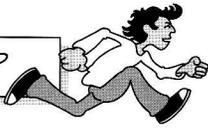
1. 3 pence take away 2 pence. p

2. How many 5p coins make 10p?

3. Which is the hottest: 6 °C or 9 °C? °C

4. How heavy is half of 8 grams? g

Marks

A START UP**Exercise 2**

1. $3 - 3 =$



4. $7 - 1 =$



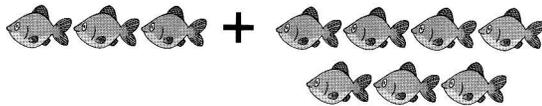
2. $1 + 4 =$



5. $6 - 5 =$



3. $3 + 7 =$



6. $0 + 5 =$



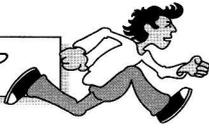
Marks

B INTO GEAR1. Five minus four. 3. Five take away five. 2. Add four to six. 4. Which is more, 3 or 6?

Marks

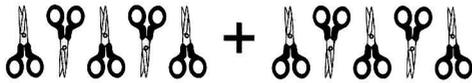
C TOUGH CHALLENGE1. 3 cakes plus 4 cakes. cakes2. Take 4 pens away from 6 pens. pens3. Half of 10 cm is how long? cm4. Which is lighter: 8 grams or 6 grams? g

Marks

A START UP

Exercise 4

1. $5 + 5 = \square$



4. $2 + 6 = \square$



2. $4 - 3 = \square$



5. $7 + 2 = \square$



3. $10 - 3 = \square$



6. $4 - 0 = \square$



Marks

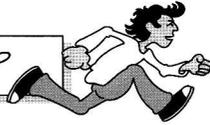
B INTO GEAR1. Make six 1 more. 3. Write 8 in words. 2. Make two 1 less. 4. Five plus four.

Marks

C TOUGH CHALLENGE1. Take 6 pens from 8 pens. pens2. To four hens add three more. , hens3. $\frac{1}{2}$ of 6 sheep. sheep4. 9p, 8p, p, 6p, 5p, p, 3p, 2p, p

Marks

A START UP



1. $8 - 6 =$



2. $5 + 3 =$



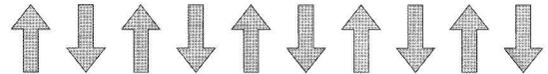
3. $6 + 2 =$



4. $9 - 6 =$



5. $10 - 4 =$



6. $1 + 5 =$



Marks

B INTO GEAR



1. From six take 1.

3. Take two from two.

2. Four add six.

4. Which is less: two or five?

Marks

C TOUGH CHALLENGE



1. How much is 3 litres doubled? litres

2. 8 apples take away 2 apples. apples

3. Total up 3 cars and 5 cars. cars

4. 6 o'clock to 9 o'clock. How long? hours

Marks

A START UP

Exercise 6

1. $1 + 8 =$

6. = $7 - 6$

2. $0 + 4 =$

7. = $1 + 3$

3. $10 - 7 =$

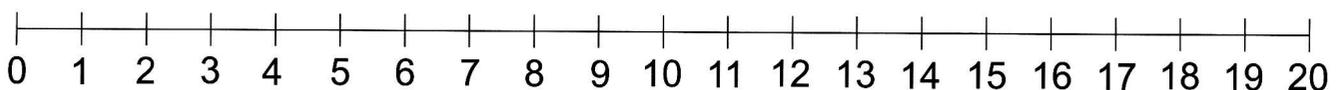
8. = $8 + 2$

4. $4 + 4 =$

9. = $3 - 2$

5. $9 - 0 =$

10. = $5 - 5$

Marks **B** INTO GEAR1. Is four odd or even? 3. To seven add 3. 2. Nine take away five. 4. From eight take one. Marks **C** TOUGH CHALLENGE1. Add 5 fish to 4 fish. fish2. Take 4 worms from 10 worms. worms3. 1 kg, 3 kg, kg, 7 kg, kg4. From 9 eggs take away 6 eggs. eggsMarks 

A START UP

Exercise 7

1. $1 + 2 = \square$

6. $\square = 4 + 5$

2. $4 + 3 = \square$

7. $\square = 10 - 1$

3. $9 - 7 = \square$

8. $\square = 4 - 1$

4. $9 - 2 = \square$

9. $\square = 2 + 8$

5. $6 + 1 = \square$

10. $\square = 5 + 3$

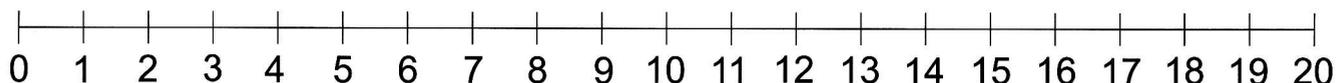
Marks

B INTO GEAR1. To eight add one. \square 3. Make 5 twice the size. \square 2. From 10 take away 5. \square 4. 4 add one. \square

Marks

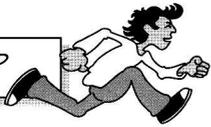
C TOUGH CHALLENGE1. Eight litres subtract 2 litres. \square litres2. 4 cows add 4 cows is how many cows? \square cows3. 10 cats take 2 cats leaves \square cats.4. Add 1p to 3p. \square p

Marks



Exercise 8

A STARTUP



1. $9 - 5 = \square$

2. $1 = 10 - \square$

3. $5 + \square = 8$

4. $9 = 2 + \square$

5. $\square + 6 = 10$

6. $4 + 5 = \square$

7. $6 = \square - 2$

8. $\square + 2 = 2$

9. $5 = \square + 1$

10. $8 - \square = 0$

Marks

B INTO GEAR



1. Double one. \square

2. Take 4 from 8. \square

3. Two more than 6. \square

4. 9 take away six. \square

Marks

C TOUGH CHALLENGE



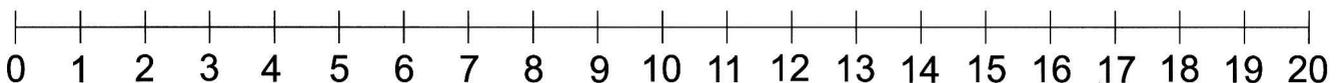
1. 7 pounds take £5. \square £

2. 4p add three pence. \square p

3. Which is shorter: 5 cm or 4 cm? \square cm

4. Half of 6 ml is how many millilitres? \square ml

Marks



A START UP

Exercise 10

1. $4 + 8 =$

6. $7 + 5 =$

2. $6 - 2 =$

7. $9 + 11 =$

3. $20 - 5 =$

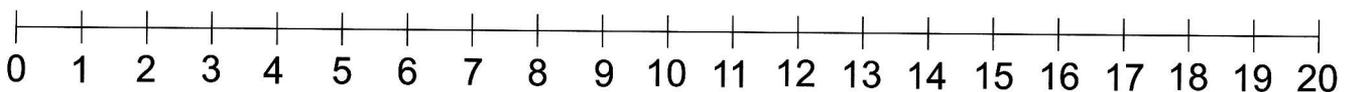
8. $7 - 3 =$

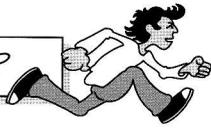
4. $2 + 9 =$

9. $3 + 9 =$

5. $10 + 0 =$

10. $10 - 7 =$

Marks **B** INTO GEAR1. Ten less than 20. 3. Ten take away nine. 2. Half of eight. 4. Add the odd numbers: 1,2,6,7 Marks **C** TOUGH CHALLENGE1. 8 marbles add 3 marbles. marbles2. $\frac{1}{2}$ of 4 cakes. cakes3. How many 1p coins make 5p? 4. 6 o'clock to 10 o'clock. How long? hoursMarks 

A START UP**Exercise 11**

1. $9 + 9 =$

6. $16 - 4 =$

2. $11 + 4 =$

7. $6 + 2 =$

3. $8 + 5 =$

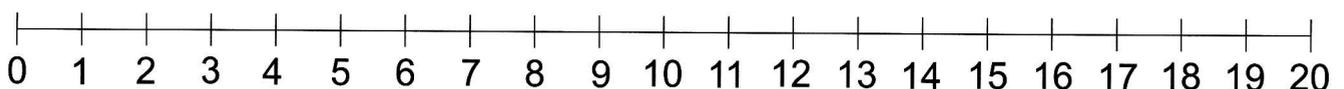
8. $20 - 3 =$

4. $1 + 9 =$

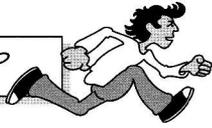
9. $5 + 9 =$

5. $4 - 0 =$

10. $0 + 7 =$

Marks **B** INTO GEAR1. Which is higher, 11 or 10? 3. Five plus 7. 2. Take two from 11. 4. Five less than seven. Marks **C** TOUGH CHALLENGE1. 3 white mice and 5 black mice. How many mice? mice2. Find the difference between 8 ml and 12 ml. ml3. Which is less: 4 grams or 5 grams? g4. Find the total length of 6 cm and 7 cm. cmMarks 

A START UP



1. $16 - 2 =$

6. $12 + 6 =$

2. $8 + 4 =$

7. $3 + 4 =$

3. $15 + 5 =$

8. $6 - 4 =$

4. $13 - 2 =$

9. $16 + 3 =$

5. $7 - 4 =$

10. $7 + 7 =$

Marks

B INTO GEAR



1. Double six. 3. Write in words the number 12.

2. Add together 9 and 11. 4. 18 take away zero.

Marks

C TOUGH CHALLENGE



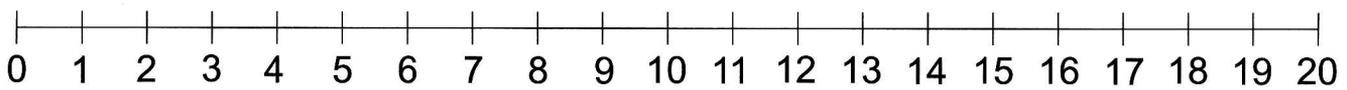
1. Which is longer: 7 cm or 17 cm? cm

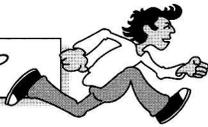
2. Take three apples away from fifteen apples. apples

3. 17p, 15p, p, 11p, p

4. 20 sheep minus 7 sheep. sheep

Marks



A STARTUP**Exercise 13**

1. $4 + 16 =$

6. $8 - 5 =$

2. $18 - 6 =$

7. $19 - 9 =$

3. $7 - 2 =$

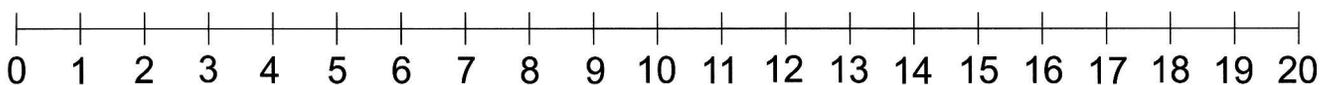
8. $1 + 6 =$

4. $9 + 9 =$

9. $2 + 10 =$

5. $14 + 1 =$

10. $16 - 5 =$

Marks **B** INTO GEAR1. Four add 14. 3. Three plus seventeen. 2. 5 take away three. 4. Is 15 odd or even? Marks **C** TOUGH CHALLENGE1. Half of £14. £ 2. Which is hottest: 17 °C, 19 °C or 18 °C? °C3. Four buttons plus five buttons. buttons4. To one pencil add eleven more. pencilsMarks 

A START UP

Exercise 14

1. $5 + 3 =$

6. $9 - 4 =$

2. $14 - 2 =$

7. $16 - 16 =$

3. $17 - 4 =$

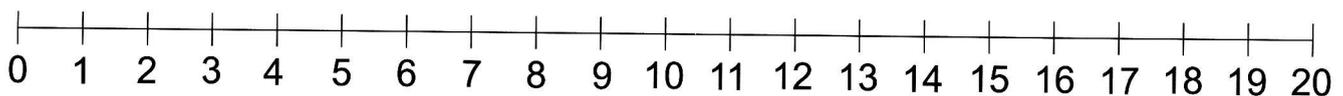
8. $5 + 2 =$

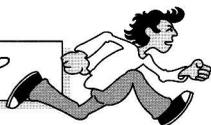
4. $6 + 9 =$

9. $10 + 8 =$

5. $8 + 8 =$

10. $19 - 5 =$

Marks **B** INTO GEAR1. From 17 subtract 2. 3. Find $\frac{1}{2}$ of 20. 2. Add the even numbers: 4,5,6. 4. Seven less 1. Marks **C** TOUGH CHALLENGE1. 5 grams, 10 grams, grams, 20 grams2. Increase £4 by £16. £3. Total up three trees and six trees. trees4. 3 o'clock to 8 o'clock. How long? hoursMarks 

A STARTUP**Exercise 15**

1. $18 + 1 = \square$

6. $\square = 17 - 6$

2. $10 + 4 = \square$

7. $\square = 0 + 3$

3. $8 - 5 = \square$

8. $\square = 18 + 2$

4. $6 + 6 = \square$

9. $\square = 13 - 2$

5. $15 - 6 = \square$

10. $\square = 12 + 8$

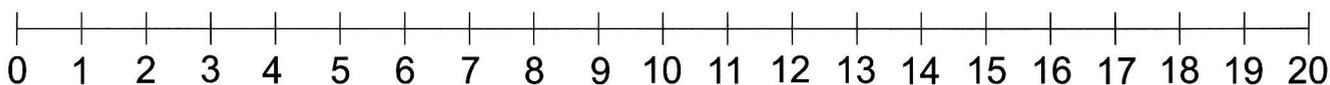
Marks

B INTO GEAR1. Count up 2 from five. \square 3. From 16 take nine. \square 2. Half of eighteen. \square 4. Twelve plus two. \square

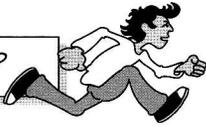
Marks

C TOUGH CHALLENGE1. 5 bananas take away 3 bananas. \square bananas2. Add 5 oranges to 10 oranges. \square oranges3. What is the distance between 6 m and 15 m? \square m4. Which is the shortest: 10 cm or 9 cm? \square cm

Marks



A START UP



1. $17 + 2 =$

6. $= 18 + 9$

2. $6 + 5 =$

7. $= 10 + 3$

3. $18 - 6 =$

8. $= 20 - 2$

4. $10 - 6 =$

9. $= 8 + 5$

5. $5 + 15 =$

10. $= 11 - 6$

Marks

B INTO GEAR



1. Subtract five from 7.

3. Take 7 from seven.

2. What is $\frac{1}{2}$ of 4?

4. Total up 1 and six.

Marks

C TOUGH CHALLENGE



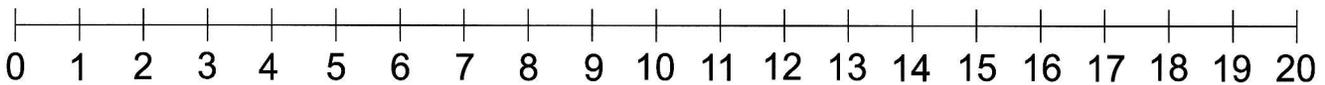
1. Subtract 3 hoops from 17 hoops. hoops

2. To three bottles add eight bottles. bottles

3. Write in the missing number: 0, 5, 10,

4. Which is heavier: 12 kg or 11 kg? kg

Marks



Exercise 17

A STARTUP



1. $20 - 4 = \square$

6. $6 + 13 = \square$

2. $\square = 11 - 1$

7. $\square = 18 - 9$

3. $4 + \square = 15$

8. $\square - 0 = 13$

4. $\square = 12 + 1$

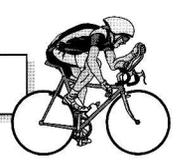
9. $3 - \square = 1$

5. $4 + \square = 13$

10. $6 + \square = 10$

Marks

B INTO GEAR



1. Is twelve even or odd? \square

3. 5 doubled is \square .

2. Take one away from 11. \square

4. Increase 5 by six. \square

Marks

C TOUGH CHALLENGE



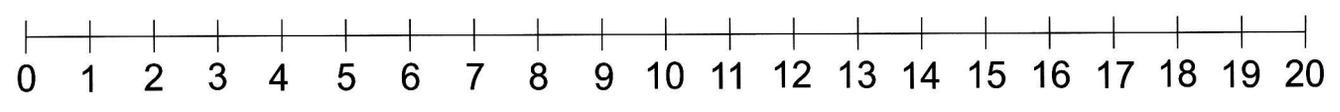
1. 4p add nine pence. \square p

2. Which is the heaviest: 19 grams or 12 grams? \square grams

3. Which coin is the same as 3p + 7p? \square p

4. Write in the missing number: 12, 10, 8, \square , 4, 2

Marks



Exercise 18

A START UP



1. $15 - 7 = \square$

6. $5 + 11 = \square$

2. $\square = 11 + 8$

7. $\square = 20 - 19$

3. $10 + \square = 20$

8. $16 - 11 = \square$

4. $\square = 17 - 2$

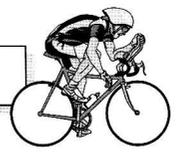
9. $\square + 4 = 11$

5. $4 + \square = 4$

10. $2 + \square = 18$

Marks

B INTO GEAR



1. Write 19 in words.

3. 15 take two.

2. Count on 2 from 9.

4. Put together 11 and four.

Marks

C TOUGH CHALLENGE



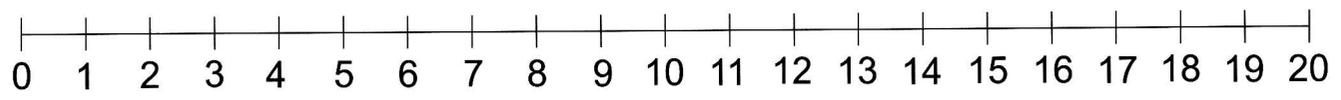
1. Five marbles add six marbles. marbles

2. Half of sixteen cups is how many cups? cups

3. Which is the longest: 4 cm or 13 cm? cm

4. Take 6 badgers away from 20 badgers. badgers

Marks



A START UP



1. $10 - 3 - 6 =$

6. $3 + 4 + 2 =$

2. $4 + 1 + 2 =$

7. $3 + 5 + 1 =$

3. $8 + 0 + 1 =$

8. $5 - 5 - 0 =$

4. $6 - 3 - 2 =$

9. $7 + 2 + 1 =$

5. $9 - 1 - 6 =$

10. $1 + 6 + 1 =$

Marks

B INTO GEAR



1. What is $\frac{1}{4}$ of 4?

3. Double 8.

2. From 16 take away 7.

4. Add 10 to ten.

Marks

C TOUGH CHALLENGE



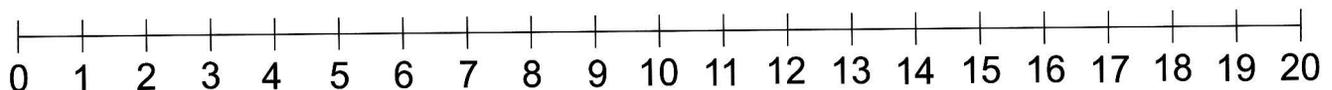
1. 15 apples minus one apple. apples

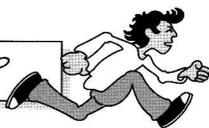
2. Make four sweets twice as many. sweets

3. What is the difference between 8°C and 19°C ? $^{\circ}\text{C}$

4. $\frac{1}{2}$ of twelve pins is how many pins? pins

Marks



A STARTUP**Exercise 20**

1. $5 - 4 - 1 =$

6. $1 + 1 + 3 =$

2. $2 + 2 + 2 =$

7. $8 - 5 - 2 =$

3. $7 + 1 + 1 =$

8. $6 - 1 - 2 =$

4. $10 - 1 - 4 =$

9. $4 + 5 + 0 =$

5. $5 + 2 + 2 =$

10. $3 + 3 + 4 =$

Marks

B INTO GEAR

1. 16, , 18, 19, 20.

3. Take 7 from 18.

2. Add the odd numbers: 2, 3, 8, 11.

4. Add 6 to 5.

Marks

C TOUGH CHALLENGE

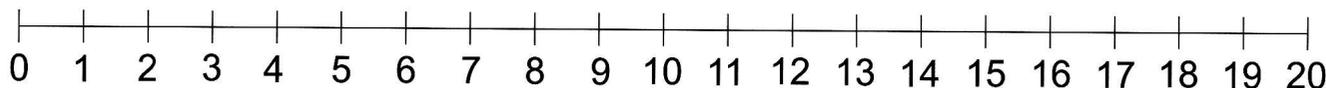
1. Add ten buses to seven buses. buses

2. Subtract 7 hats from nineteen hats. hats

3. Find the total of £7 and £12. £

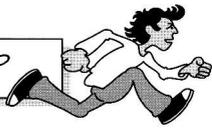
4. What is a quarter of eight sharks? sharks

Marks



Exercise 21

A STARTUP



1. $15 - 8 - 1 =$

6. $0 + 10 + 0 =$

2. $5 + 6 + 2 =$

7. $13 + 5 + 2 =$

3. $8 + 10 + 1 =$

8. $18 - 6 - 2 =$

4. $16 - 8 - 2 =$

9. $7 + 1 + 1 =$

5. $19 - 4 - 0 =$

10. $14 - 6 - 1 =$

Marks

B INTO GEAR



1. 5 less than 19 is .

3. Take six from 18.

2. Write 20 in words.

4. Eighteen halved.

Marks

C TOUGH CHALLENGE



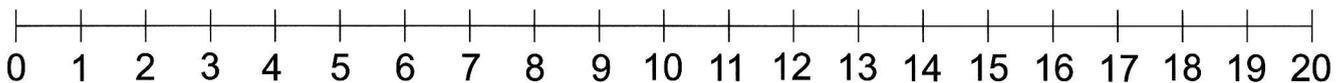
1. Six ml plus nine ml. ml

2. Twenty biscuits minus five biscuits. biscuits

3. Ten cups doubled is how many cups? cups

4. Write in the missing number: 13, 11, , 7.

Marks



A START UP



1. $11 - 8 - 1 =$

6. $11 + 1 + 4 =$

2. $2 + 6 + 2 =$

7. $11 - 1 - 4 =$

3. $17 + 2 + 0 =$

8. $16 - 9 - 7 =$

4. $20 - 4 - 4 =$

9. $10 + 1 + 9 =$

5. $5 + 7 + 7 =$

10. $5 + 5 + 5 =$

Marks

B INTO GEAR



1. Add two, seven and five.

3. Eleven plus four.

2. Take 3 and 4 from 19.

4. Which is odd: 7 or 8?

Marks

C TOUGH CHALLENGE



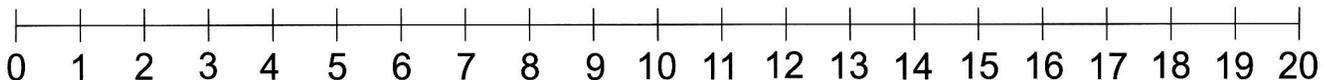
1. 7p add 6p plus 3p is how much? p

2. How heavy is 8 grams add 5 grams? g

3. Find the sum of 6 m and 11 m. m

4. How many is a quarter of 20 peas? peas

Marks



A STARTUP



1. $7 + 2 - 4 =$

6. $10 - 7 + 5 =$

2. $11 + 4 + 5 =$

7. $5 + 7 + 5 =$

3. $8 - 8 + 8 =$

8. $9 - 0 + 1 =$

4. $7 - 3 - 2 =$

9. $19 - 7 - 7 =$

5. $16 - 8 - 7 =$

10. $6 + 3 - 9 =$

Marks

B INTO GEAR



1. Take 2 and 5 from 7.

3. 3 less than 18 equals?

2. 9 minus 4 add one.

4. $\frac{1}{2}$ of 10 is how many?

Marks

C TOUGH CHALLENGE



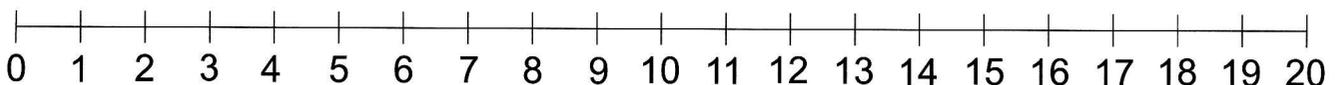
1. 7 cm add 9 cm equals how many centimetres? cm

2. How many hours from 7 am to 11 am? hours

3. Nine lambs subtract three lambs add one lamb. lambs

4. What is $\frac{1}{4}$ of 20 carrots? carrots

Marks



A START UP



- | | |
|--|---|
| 1. $17 - 3 - 4 =$ <input type="text"/> | 6. $18 - 4 + 6 =$ <input type="text"/> |
| 2. $6 + 7 - 3 =$ <input type="text"/> | 7. $19 - 8 - 2 =$ <input type="text"/> |
| 3. $18 - 9 + 5 =$ <input type="text"/> | 8. $8 + 5 - 3 =$ <input type="text"/> |
| 4. $3 + 6 + 6 =$ <input type="text"/> | 9. $17 - 9 + 5 =$ <input type="text"/> |
| 5. $9 + 9 - 4 =$ <input type="text"/> | 10. $6 + 10 - 5 =$ <input type="text"/> |

Marks

B INTO GEAR



- | | |
|---|---|
| 1. Four add six add 9. <input type="text"/> | 3. Double 9 is how many? <input type="text"/> |
| 2. Subtract 8 from eleven. <input type="text"/> | 4. Find 20 minus nine. <input type="text"/> |

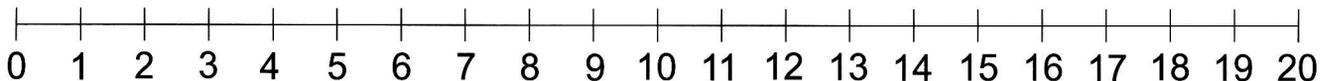
Marks

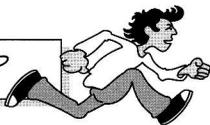
C TOUGH CHALLENGE



- The total of 11p and 9p is how much? p
- What is the difference between 17 cm and 13 cm? cm
- Add together 3 g, 4 g and 9 g. g
- Which is colder: 0 °C or 10 °C? °C

Marks



A START UP**Exercise 25**

1. $2 + 8 =$

6. $16 - 2 - 4 =$

2. $4 - 2 - 1 =$

7. $32 - 20 =$

3. $3 \times 2 =$

8. $5 + 3 + 4 =$

4. $23 + 10 =$

9. $6 \times 2 =$

5. $4 + 6 + 9 =$

10. $37 - 5 =$

Marks

B INTO GEAR

1. 78, 77, , 75, 74.

3. To 6 add 4 and 3.

2. 18 minus 9 minus 3.

4. 18 take 8 add 7.

Marks

C TOUGH CHALLENGE

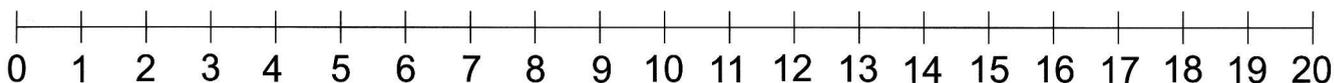
1. 9p is 5p more than what amount? p

2. 28 m is 7 m longer than how many metres? m

3. Total up twelve cats, four cats and three cats. cats

4. How many is half of fourteen foxes? foxes

Marks



A START UP



1. $19 - 2 - 6 =$

6. $8 + 6 =$

2. $7 - 4 + 5 =$

7. $29 - 10 =$

3. $50 + 6 =$

8. $2 \times 10 =$

4. $8 \times 2 =$

9. $18 - 1 - 5 =$

5. $18 - 3 + 4 =$

10. $13 + 30 =$

Marks

B INTO GEAR



1. Take 5 and 2 from 19.

3. Thirty add 7.

2. 75, 80, 85, , 95.

4. Double seven.

Marks

C TOUGH CHALLENGE



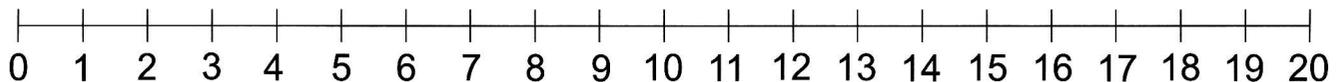
1. Add up 8p, 4p and 5p. p

2. 5 o'clock to 11 o'clock. How many hours? hours

3. 29 cars minus 3 cars. cars

4. Find $\frac{1}{4}$ of 12 kg. kg

Marks



A START UP**Exercise 27**

1. $4 \times 2 =$

6. $7 \times 2 =$

2. $10 - 3 - 5 =$

7. $9 - 4 =$

3. $6 + 9 =$

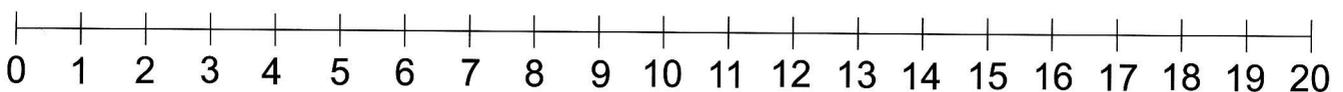
8. $27 + 2 =$

4. $10 \times 5 =$

9. $19 - 2 - 5 =$

5. $6 + 3 + 8 =$

10. $74 + 20 =$

Marks **B** INTO GEAR1. How many twos make 6? 3. 52, 62, 72, 2. Half of four add 8. 4. 5 add six plus 7. Marks **C** TOUGH CHALLENGE1. What is the difference between $41\text{ }^{\circ}\text{C}$ and $20\text{ }^{\circ}\text{C}$? $^{\circ}\text{C}$ 2. 5 sweets at 2p each will cost how much? p3. Put together 2 sheep, 8 sheep and 10 sheep. sheep4. 38 cm is 8 cm longer than cm.Marks 

A START UP



1. $3 + 16 - 2 =$

6. $44 + 5 =$

2. $8 \times 5 =$

7. $10 - 9 + 2 =$

3. $10 - 3 - 7 =$

8. $19 - 2 =$

4. $99 - 20 =$

9. $9 \times 2 =$

5. $10 \times 10 =$

10. $38 - 5 =$

Marks

B INTO GEAR



1. How many fives in 30?

3. Half of 6 is .

2. Add 3, 4 and five.

4. 87 less 5 equals?

Marks

C TOUGH CHALLENGE



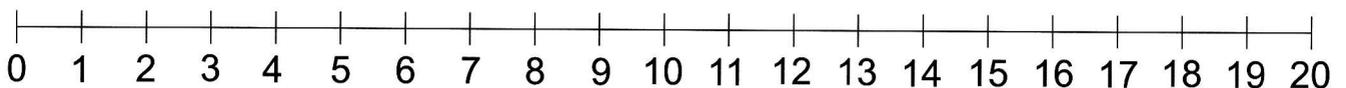
1. Write in the missing amount: 30p 28p 26p p 22p

2. 10 cm add 9 cm equals how many centimetres? cm

3. Subtract £2 and six pounds from £18. £

4. Add 80 cows to seventeen cows. cows

Marks



Time Yourself Tests 1 - 4



TEST 1

Time taken: min

Marks

1. $4 + 2 =$

2. $8 - 2 =$

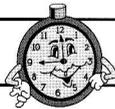
3. $4 + 5 =$

4. $1 + 1 =$

5. $10 - 2 =$

6. $6 + 4 =$

7. $3 + 1 =$



TEST 2

Time taken: min

Marks

1. $4 - 2 =$

2. $2 + 8 =$

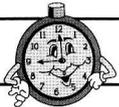
3. $5 - 0 =$

4. $3 + 5 =$

5. $7 - 3 =$

6. $3 + 3 =$

7. $10 - 4 =$



TEST 3

Time taken: min

Marks

1. $3 + 7 =$

2. $5 + 2 =$

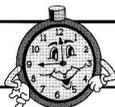
3. $5 - 5 =$

4. $0 + 4 =$

5. $5 - 4 =$

6. $0 + 10 =$

7. $7 - 1 =$



TEST 4

Time taken: min

Marks

1. $1 + 4 =$

2. $6 - 5 =$

3. $3 + 7 =$

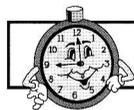
4. $3 - 3 =$

5. $3 - 2 =$

6. $5 - 3 =$

7. $0 + 3 =$

Time Yourself Tests 5 - 8



TEST 5

Time taken: min

Marks

1. $3 + 5 =$

2. $8 - 2 =$

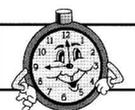
3. $3 + 4 =$

4. $2 + 0 =$

5. $2 - 2 =$

6. $4 + 6 =$

7. $10 - 1 =$



TEST 6

Time taken: min

Marks

1. $7 - 0 =$

2. $6 + 2 =$

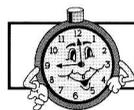
3. $8 - 6 =$

4. $5 + 3 =$

5. $9 - 6 =$

6. $1 + 5 =$

7. $10 - 7 =$



TEST 7

Time taken: min

Marks

1. $13 - 2 =$

2. $11 + 2 =$

3. $7 + 6 =$

4. $20 - 4 =$

5. $12 - 2 =$

6. $13 + 4 =$

7. $11 - 9 =$



TEST 8

Time taken: min

Marks

1. $6 + 12 =$

2. $17 - 4 =$

3. $11 - 8 =$

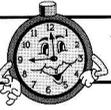
4. $0 + 11 =$

5. $15 - 2 =$

6. $5 + 9 =$

7. $12 + 8 =$

Time Yourself Tests 13 - 16



TEST 13

Time taken: min

Marks

1. $10 + 2 =$

2. $18 - 9 =$

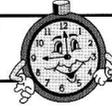
3. $4 + 4 =$

4. $9 - 0 =$

5. $3 + 3 =$

6. $11 + 6 =$

7. $12 - 4 =$



TEST 14

Time taken: min

Marks

1. $20 - 8 =$

2. $11 + 9 =$

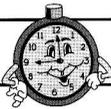
3. $4 + 6 =$

4. $1 + 2 =$

5. $10 - 6 =$

6. $8 + 5 =$

7. $12 - 7 =$



TEST 15

Time taken: min

Marks

1. $0 + 3 =$

2. $11 - 3 =$

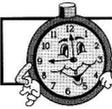
3. $13 - 4 =$

4. $20 - 8 =$

5. $1 + 7 =$

6. $7 - 6 =$

7. $2 + 9 =$



TEST 16

Time taken: min

Marks

1. $7 + 13 =$

2. $17 - 8 =$

3. $12 + 4 =$

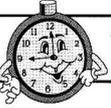
4. $11 + 1 =$

5. $10 - 7 =$

6. $4 + 9 =$

7. $20 - 4 =$

Time Yourself Tests 17 - 20



TEST 17

Time taken: min

Marks

1. $5 + 1 + 3 =$

2. $8 - 2 - 5 =$

3. $2 + 3 + 4 =$

4. $7 - 3 - 3 =$

5. $4 - 1 - 2 =$

6. $2 + 2 + 3 =$

7. $9 - 1 - 4 =$



TEST 18

Time taken: min

Marks

1. $9 - 1 - 2 =$

2. $3 + 3 + 3 =$

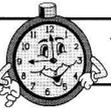
3. $5 + 1 + 2 =$

4. $9 - 3 - 2 =$

5. $5 - 2 - 3 =$

6. $2 + 0 + 2 =$

7. $9 - 5 - 4 =$



TEST 19

Time taken: min

Marks

1. $3 + 4 + 11 =$

2. $18 - 8 - 6 =$

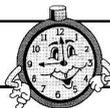
3. $5 + 5 + 5 =$

4. $6 + 7 + 1 =$

5. $19 - 2 - 5 =$

6. $19 - 6 - 2 =$

7. $4 + 8 + 5 =$



TEST 20

Time taken: min

Marks

1. $12 - 5 - 2 =$

2. $3 + 13 + 3 =$

3. $15 - 0 - 1 =$

4. $7 + 2 + 7 =$

5. $14 - 8 - 5 =$

6. $20 - 8 - 9 =$

7. $6 + 6 + 8 =$

Time Yourself Tests 21 - 24



TEST 21

Time taken: min

Marks

1. $19 - 3 + 4 =$

2. $7 - 4 + 4 =$

3. $8 + 4 - 5 =$

4. $9 - 0 + 2 =$

5. $0 + 7 - 4 =$

6. $18 - 9 + 7 =$

7. $12 - 7 + 2 =$



TEST 22

Time taken: min

Marks

1. $5 + 8 - 2 =$

2. $20 - 9 + 8 =$

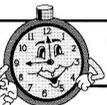
3. $4 + 12 - 7 =$

4. $17 + 2 - 7 =$

5. $20 - 6 + 0 =$

6. $10 - 8 + 2 =$

7. $16 - 7 + 9 =$



TEST 23

Time taken: min

Marks

1. $6 + 4 + 9 =$

2. $10 - 3 + 8 =$

3. $4 - 3 - 1 =$

4. $10 + 2 + 8 =$

5. $1 + 17 - 5 =$

6. $16 - 6 - 5 =$

7. $2 + 2 + 2 =$



TEST 24

Time taken: min

Marks

1. $6 + 10 + 4 =$

2. $20 - 9 + 0 =$

3. $1 + 4 + 11 =$

4. $12 - 4 + 8 =$

5. $1 - 1 + 5 =$

6. $14 + 5 - 4 =$

7. $10 - 4 + 5 =$

Answers — Pages 1 to 18

Page 1 Ex 1

A – START UP

1. 4 2. 3 3. 2 4. 5 5. 3 6. 10

B – INTO GEAR

1. 8 2. 5 3. 9 4. 2

C – TOUGH CHALLENGE

1. 1p 2. 2 3. 9 °C 4. 4 g

Page 2 Ex 2

A – START UP

1. 0 2. 5 3. 10 4. 6 5. 1 6. 5

B – INTO GEAR

1. 1 2. 10 3. 0 4. 6

C – TOUGH CHALLENGE

1. 7 cakes 2. 2 pens 3. 5 cm 4. 6 g

Page 3 Ex 3

A – START UP

1. 6 2. 5 3. 4 4. 10 5. 8 6. 2

B – INTO GEAR

1. four 2. 9 3. 8 4. odd

C – TOUGH CHALLENGE

1. 9p 2. 6 cats 3. £10 4. 6p, 10p

Page 4 Ex 4

A – START UP

1. 10 2. 1 3. 7 4. 8 5. 9 6. 4

B – INTO GEAR

1. 7 2. 1 3. eight 4. 9

C – TOUGH CHALLENGE

1. 2 pens 2. 7 hens 3. 3 sheep

4. 7p, 4p, 1p

Page 5 Ex 5

A – START UP

1. 2 2. 8 3. 8 4. 3 5. 6 6. 6

B – INTO GEAR

1. 5 2. 10 3. 0 4. 2

C – TOUGH CHALLENGE

1. 6 litres 2. 6 apples 3. 8 cars

4. 3 hours

Page 6 Ex 6

A – START UP

1. 9 2. 4 3. 3 4. 8 5. 9

6. 1 7. 4 8. 10 9. 1 10. 0

B – INTO GEAR

1. even 2. 4 3. 10 4. 7

C – TOUGH CHALLENGE

1. 9 fish 2. 6 worms 3. 5 kg, 9 kg

4. 3 eggs

Page 7 Ex 7

A – START UP

1. 3 2. 7 3. 2 4. 7 5. 7

6. 9 7. 9 8. 3 9. 10 10. 8

B – INTO GEAR

1. 9 2. 5 3. 10 4. 5

C – TOUGH CHALLENGE

1. 6 litres 2. 8 cows 3. 8 cats

4. 4p

Page 8 Ex 8

A – START UP

1. 4 2. 9 3. 3 4. 7 5. 4

6. 9 7. 8 8. 0 9. 4 10. 8

B – INTO GEAR

1. 2 2. 4 3. 8 4. 3

C – TOUGH CHALLENGE

1. £2 2. 7p 3. 4 cm 4. 3 ml

Page 9 Ex 9

A – START UP

1. 5 2. 1 3. 1 4. 8 5. 8

6. 9 7. 2 8. 3 9. 3 10. 2

B – INTO GEAR

1. 8 2. 2 3. 3 4. nine

C – TOUGH CHALLENGE

1. 10 dolls 2. 2 toys 3. 6 pigs 4. 5p

Page 10 Ex 10

A – START UP

1. 12 2. 4 3. 15 4. 11 5. 10

6. 12 7. 20 8. 4 9. 12 10. 3

B – INTO GEAR

1. 10 2. 4 3. 1 4. 8

C – TOUGH CHALLENGE

1. 11 marbles 2. 2 cakes 3. 5

4. 4 hours

Page 11 Ex 11

A – START UP

1. 18 2. 15 3. 13 4. 10 5. 4

6. 12 7. 8 8. 17 9. 14 10. 7

B – INTO GEAR

1. 11 2. 9 3. 12 4. 2

C – TOUGH CHALLENGE

1. 8 mice 2. 4 ml 3. 4 g 4. 13 cm

Page 12 Ex 12

A – START UP

1. 14 2. 12 3. 20 4. 11 5. 3

6. 18 7. 7 8. 2 9. 19 10. 14

B – INTO GEAR

1. 12 2. 20 3. twelve 4. 18

C – TOUGH CHALLENGE

1. 17cm 2. 12 apples 3. 13p, 9p

4. 13 sheep

Page 13 Ex 13

A – START UP

1. 20 2. 12 3. 5 4. 18 5. 15

6. 3 7. 10 8. 7 9. 12 10. 11

B – INTO GEAR

1. 18 2. 2 3. 20 4. odd

C – TOUGH CHALLENGE

1. £7 2. 19 °C 3. 9 buttons

4. 12 pencils

Page 14 Ex 14

A – START UP

1. 8 2. 12 3. 13 4. 15 5. 16

6. 5 7. 0 8. 7 9. 18 10. 14

B – INTO GEAR

1. 15 2. 10 3. 10 4. 6

C – TOUGH CHALLENGE

1. 15 grams 2. £20

3. 9 trees 4. 5 hours

Page 15 Ex 15

A – START UP

1. 19 2. 14 3. 3 4. 12 5. 9

6. 11 7. 3 8. 20 9. 11 10. 20

B – INTO GEAR

1. 7 2. 9 3. 7 4. 14

C – TOUGH CHALLENGE

1. 2 bananas 2. 15 oranges 3. 9 m

4. 9 cm

Page 16 Ex 16

A – START UP

1. 19 2. 11 3. 12 4. 4 5. 20

6. 27 7. 13 8. 18 9. 13 10. 5

B – INTO GEAR

1. 2 2. 2 3. 0 4. 7

C – TOUGH CHALLENGE

1. 14 hoops 2. 11 bottles 3. 15

4. 12 kg

Page 17 Ex 17

A – START UP

1. 16 2. 10 3. 11 4. 13 5. 9

6. 19 7. 9 8. 13 9. 2 10. 4

B – INTO GEAR

1. even 2. 10 3. 10 4. 11

C – TOUGH CHALLENGE

1. 13p 2. 19 grams 3. 10p 4. 6

Page 18 Ex 18

A – START UP

1. 8 2. 19 3. 10 4. 15 5. 0

6. 16 7. 1 8. 5 9. 7 10. 16

B – INTO GEAR

1. nineteen 2. 11 3. 13 4. 15

C – TOUGH CHALLENGE

1. 11 marbles 2. 8 cups 3. 13 cm

4. 14 badgers

Answers — Pages 19 to 34

Page 19 Ex 19

A – START UP

1. 1 2. 7 3. 9 4. 1 5. 2
6. 9 7. 9 8. 0 9. 10 10. 8

B – INTO GEAR

1. 1 2. 9 3. 16 4. 20

C – TOUGH CHALLENGE

1. 14 apples 2. 8 sweets 3. 11 °C
4. 6 pins

Page 20 Ex 20

A – START UP

1. 0 2. 6 3. 9 4. 5 5. 9
6. 5 7. 1 8. 3 9. 9 10. 10

B – INTO GEAR

1. 17 2. 14 3. 11 4. 11

C – TOUGH CHALLENGE

1. 17 buses 2. 12 hats 3. £19
4. 2 sharks

Page 21 Ex 21

A – START UP

1. 6 2. 13 3. 19 4. 6 5. 15
6. 10 7. 20 8. 10 9. 9 10. 7

B – INTO GEAR

1. 14 2. twenty 3. 12 4. 9

C – TOUGH CHALLENGE

1. 15 ml 2. 15 biscuits 3. 20 cups
4. 9

Page 22 Ex 22

A – START UP

1. 2 2. 10 3. 19 4. 12 5. 19
6. 16 7. 6 8. 0 9. 20 10. 15

B – INTO GEAR

1. 14 2. 12 3. 15 4. 7

C – TOUGH CHALLENGE

1. 16p 2. 13 g 3. 17 m 4. 5 peas

Page 23 Ex 23

A – START UP

1. 5 2. 20 3. 8 4. 2 5. 1
6. 8 7. 17 8. 10 9. 5 10. 0

B – INTO GEAR

1. 0 2. 6 3. 15 4. 5

C – TOUGH CHALLENGE

1. 16 cm 2. 4 hours 3. 7 lambs
4. 5 carrots

Page 24 Ex 24

A – START UP

1. 10 2. 10 3. 14 4. 15 5. 14
6. 20 7. 9 8. 10 9. 13 10. 11

B – INTO GEAR

1. 19 2. 3 3. 18 4. 11

C – TOUGH CHALLENGE

1. 20p 2. 4 cm 3. 16 g 4. 0 °C

Page 25 Ex 25

A – START UP

1. 10 2. 1 3. 6 4. 33 5. 19
6. 10 7. 12 8. 12 9. 12 10. 32

B – INTO GEAR

1. 76 2. 6 3. 13 4. 17

C – TOUGH CHALLENGE

1. 4p 2. 21 m 3. 19 cats 4. 7 foxes

Page 26 Ex 26

A – START UP

1. 11 2. 8 3. 56 4. 16 5. 19
6. 14 7. 19 8. 20 9. 12 10. 43

B – INTO GEAR

1. 12 2. 90 3. 37 4. 14

C – TOUGH CHALLENGE

1. 17p 2. 6 hours 3. 26 cars 4. 3 kg

Page 27 Ex 27

A – START UP

1. 8 2. 2 3. 15 4. 50 5. 17
6. 14 7. 5 8. 29 9. 12 10. 94

B – INTO GEAR

1. 3 2. 10 3. 82 4. 18

C – TOUGH CHALLENGE

1. 21 °C 2. 10p 3. 20 sheep
4. 30 cm

Page 28 Ex 28

A – START UP

1. 17 2. 40 3. 0 4. 79 5. 100
6. 49 7. 3 8. 17 9. 18 10. 33

B – INTO GEAR

1. 6 2. 12 3. 3 4. 82

C – TOUGH CHALLENGE

1. 24p 2. 19 cm 3. £10 4. 97 cows

Page 29 Time Yourself Tests

Test 1

1. 6 2. 6 3. 9 4. 2 5. 8 6. 10 7. 4

Test 2

1. 2 2. 10 3. 5 4. 8 5. 4 6. 6 7. 6

Test 3

1. 10 2. 7 3. 0 4. 4 5. 1 6. 10 7. 6

Test 4

1. 5 2. 1 3. 10 4. 0 5. 1 6. 2 7. 3

Page 30 Time Yourself Tests

Test 5

1. 8 2. 6 3. 7 4. 2 5. 0 6. 10 7. 9

Test 6

1. 7 2. 8 3. 2 4. 8 5. 3 6. 6 7. 3

Test 7

1. 11 2. 13 3. 13 4. 16 5. 10

Test 8

1. 18 2. 13 3. 3 4. 11 5. 13

6. 14 7. 20

Page 31 Time Yourself Tests

Test 9

1. 10 2. 11 3. 17 4. 8 5. 20
6. 19 7. 19

Test 10

1. 13 2. 11 3. 12 4. 16 5. 4

6. 12 7. 5

Test 11

1. 15 2. 19 3. 16 4. 12 5. 19

6. 11 7. 6

Test 12

1. 7 2. 18 3. 12 4. 11 5. 11

6. 20 7. 14

Page 32 Time Yourself Tests

Test 13

1. 12 2. 9 3. 8 4. 9 5. 6

6. 17 7. 8

Test 14

1. 12 2. 20 3. 10 4. 3 5. 4

6. 13 7. 5

Test 15

1. 3 2. 8 3. 9 4. 12 5. 8

6. 1 7. 11

Test 16

1. 20 2. 9 3. 16 4. 12 5. 3

6. 13 7. 16

Page 33 Time Yourself Tests

Test 17

1. 9 2. 1 3. 9 4. 1 5. 1 6. 7 7. 4

Test 18

1. 6 2. 9 3. 8 4. 4 5. 0 6. 4 7. 0

Test 19

1. 18 2. 4 3. 15 4. 14 5. 12

6. 11 7. 17

Test 20

1. 5 2. 19 3. 14 4. 16 5. 1

6. 3 7. 20

Page 34 Time Yourself Tests

Test 21

1. 20 2. 7 3. 7 4. 11 5. 3

6. 16 7. 7

Test 22

1. 11 2. 19 3. 9 4. 12 5. 14

6. 4 7. 18

Test 23

1. 19 2. 15 3. 0 4. 20 5. 13

6. 5 7. 6

Test 24

1. 20 2. 11 3. 16 4. 16 5. 5

6. 15 7. 11