# **Lancashire Curriculum Tests**

# **Year 6 – End of Spring Term**

(On track to meet end of year expectations)

# Mathematics test administration guide and mark schemes

Paper 1: arithmetic

Paper 2: reasoning



## Administration guide

| Format     | This test consists of two papers, an arithmetic paper and a reasoning paper.   |  |  |  |  |  |
|------------|--|--|--|--|--|--|
|            | The arithmetic paper will take 30 minutes and the reasoning paper will take 40 minutes to complete.  |  |  |  |  |  |
|            | • It is at your discretion to choose when or if pupil(s) require a break during each test or whether, if appropriate, to stop the test early.  |  |  |  |  |  |
|            | <ul> <li>The test may be administered as a class or in groups, whichever is deemed most suitable. The<br/>assistance guidance should be followed in either situation.</li> </ul>                                       |  |  |  |  |  |
| Equipment  | Each pupil will need the equipment specified below:  |  |  |  |  |  |
|            | a pencil   |  |  |  |  |  |
|            | a ruler (showing centimetres and millimetres)  |  |  |  |  |  |
|            | a rubber (optional). If rubbers are not provided, you should tell pupils that they may cross out   |  |  |  |  |  |
|            | any answers they wish to change  |  |  |  |  |  |
|            | a mirror (reasoning paper only)  |  |  |  |  |  |
|            | Pupils are <b>not</b> allowed to use calculators in the test.  |  |  |  |  |  |
| Assistance | You must ensure that nothing you say or do during a test could be interpreted as giving pupils an advantage, e.g. indicating that an answer is correct or incorrect, or suggesting the pupil looks at an answer again. |  |  |  |  |  |
|            | <ul> <li>an answer again.</li> <li>If a pupil requests it, a question may be read to them on a one-to-one basis. However, adults</li> </ul>  |  |  |  |  |  |
|            | can only read numbers and not mathematical symbols. This is to ensure that pupils are not given an unfair advantage by having the function inadvertently explained by reading its name.                                |  |  |  |  |  |

# **General marking principles**

The marking guidance within these tests directly reflects the guidance for the national end of key stage tests 2016.

| 4. The most Vernous and are not  |   |
|--|---|
| 1. The pupil's answer does not   | Use your judgement in deciding whether the answer corresponds with details  |
| match closely any of the   | in the 'Requirement' column of the mark scheme. Reference will also be made   |
| examples given in the mark   | to the 'Additional guidance' column.  |
| scheme.  | Double was a side as ideas in our favor as laws as its assessing as a law   |
| 2. The pupil has answered in a   | Pupils may provide evidence in any form as long as its meaning can be   |
| non-standard way.  | understood. Diagrams, symbols or words are acceptable for explanations or   |
| 2 7  | for indicating an answer.   |
| 3. The answer in the answer box is wrong due to a misread of numbers (paper 2 only). | A misread occurs when a pupil misreads a <b>number</b> given in the question and consistently uses a different number that does not alter the original intention or difficulty of the question. For example, if '243' is misread as '248', both numbers may be regarded as comparable in difficulty. However, if '243' is misread as '245' or '240', the misread number may be regarded as making the question easier. The misread of a number may affect the award of marks. |
|  | Where appropriate, detailed guidance will be given in the mark scheme. If no guidance is given, examine each case to decide whether the mark(s) will be awarded.  |
|  | No marks are awarded if:  |
|  | <ul> <li>it is a ONE-mark question</li> <li>there is more than one misread number in a question</li> <li>the mathematics is simplified</li> <li>it is an explanation question</li> <li>it is a misread of other information (not numbers).</li> </ul>   |
|  | For <b>TWO-mark</b> questions that have a method mark, <b>ONE</b> mark will be awarded if the correct method is correctly followed through with the misread number provided the mathematics has not been simplified.  |
|  | For <b>THREE-mark</b> questions, refer to the additional guidance.  |
| 4. No answer is given in the   | Where a pupil has unambiguously indicated the correct answer, the mark(s)   |
| expected place, but the correct  | will be awarded. In particular, where a word or number is expected, a pupil   |
| answer is given elsewhere.   | may meet the requirement by annotating a graph or labelling a diagram elsewhere in the question.  |
| 5. The pupil's answer is correct, but the wrong working is shown.                    | A correct final answer will be awarded the mark(s).   |
| 6. The answer in the answer box is wrong due to a transcription                      | A transcription error occurs when a pupil miscopies the correct answer from the <b>end of their working</b> into the answer box.  |
| error.   | Where appropriate, detailed guidance will be given in the mark scheme. For questions with no guidance, marks <b>will not</b> be awarded for a transcription error unless the following rules apply:   |
|  | • the wrong answer is due to a transcription error; i.e. the wrong answer is due to transposed digits in a number (e.g. 243 is written as 423); if so, the mark(s) will be awarded.   |
|  | <ul> <li>the wrong answer is due to one digit being changed in a number of 4 or more digits (e.g. 2345 is written as 2845); if so, the mark(s) will be awarded.</li> </ul>  |

| 7. The pupil's answer correctly follows through from earlier incorrect work.                        | <ul> <li>the pupil has continued to give redundant extra working which does not contradict the work already done; if so, the mark(s) will be awarded.</li> <li>the pupil has continued to give redundant extra working which does contradict work already done; if so, the mark(s) will not be awarded.</li> <li>'Follow through' marks for an answer will only be awarded when specifically stated in the mark scheme.</li> </ul> |
|---|--|
| 8. The correct answer has been crossed out and not replaced.  | No marks will be awarded for crossed-out answers or working.   |
| 9. More than one answer is given.   | If all answers given are correct (or a range of answers is given, all of which are correct), the mark(s) will be awarded unless the mark scheme states otherwise. If both correct and incorrect answers are given, no mark(s) will be awarded unless the mark scheme states otherwise.   |
| 10. The pupil's answer is numerically or algebraically equivalent to the answer in the mark scheme. | Answers should be given as single values in their simplest form unless the mark scheme states otherwise, e.g. for $= 536 - 30$ , the answer $500 + 6$ will not be accepted. Refer to the 'Additional guidance' column to determine if the mark(s) will be awarded.   |
| 11. The pupil has used a symbol as a separator of thousands.  | Only accept the use of a comma as a separator of thousands (either correctly or incorrectly placed). If the digits are in the correct order, the mark(s) will be awarded.  If any other symbol is used the mark(s) will not be awarded.  |
| 12.The correct answer is embedded in the working (paper 2 only).                                    | An embedded answer occurs when a pupil shows the correct answer within their working but then selects the wrong answer from their working as their final answer or leaves the answer box blank. For example, if a pupil shows '2.5 $\times$ 6 = 3 $\times$ 5' in the last line of their working and writes 5 in the answer box whereas the correct answer is 3, then this will affect the award of marks.                          |
|   | Where appropriate, detailed guidance will be given in the mark scheme. If no guidance is given, examine each case to decide whether the mark(s) will be awarded.   |
|   | For <b>ONE-mark</b> questions, no mark will be awarded.  |
|   | For <b>TWO-mark</b> questions that have a method mark, <b>ONE-mark</b> will be awarded provided the pupil does not give redundant extra working which contradicts work already done.   |
|   | For <b>THREE-mark</b> questions, refer to the additional guidance.   |
| 13. The pupil has drawn lines which do not meet at the correct point.                               | 'Slight inaccuracies in drawing' means within or on a circle of radius 2 mm with its centre at the correct point.  |

# Marking specific types of question: summary of additional guidance

# **Answers involving money**

|   | Accept   | Do not accept  |
|---|--|--|
| Where the £ sign is given, e.g.         | £3.20 £7<br>£7.00  |  |
| £3.20, £7                               | Any unambiguous indication of the correct amount, e.g. £3.20p £3.20 pence £3.20 £3-20 £3:20  | Incorrect placement of pounds or pence, e.g. £320 £320p Incorrect placement of decimal point or incorrect use or omission of 0 or use of comma as a decimal point, e.g. £3.2 £3.20 £3.20 |
| Where the p sign is given, e.g. 40p     | 40p  Any unambiguous indication of the correct amount, e.g. £0.40p   | Incorrect or ambiguous use of pounds or pence or use of comma as a decimal point, e.g.  0.40p  £40p  £0,40p  |
| Where no sign is given, e.g. £3.20, 40p | £3.20 40p  320p £0.40  Any unambiguous indication of the correct amount, e.g.  £3.20p £0.40p  £3 20 pence £.40p  £3 20 £.40  £3-20 40  £3:20 0.40  3.20  3 pounds 20 | Incorrect or ambiguous use of pounds or pence or use of comma as a decimal point, e.g. £320 £40 £320p £40p £3.2 0.4 3.20p 0.40p £3,20 0,40p £0,40p                                       |

#### Answers involving time

|  | Accept  | Do not accept   |  |
|--|---|---|--|
| A time interval, e.g. 2 hours 30 minutes | 2 hours 30 minutes  Any unambiguous, correct indication, e.g.   | Incorrect or ambiguous time interval or use of comma as a decimal point, e.g.   |  |
|  | (0)2h 30 150 minutes<br>(0)2h 30 min 150<br>(0)2 30 2.5 hours<br>(0)2-30 $2\frac{1}{2}$ hours<br>Digital electronic time, i.e.<br>(0)2:30 (0)2;30   | 2.30       2.3 hours         2,30       2.3h         230       2h 3         2.3       2.30 min         2,5 hours  |  |
| A specific time, e.g. 8:40am, 17:20      | (0)8:40am (0)8:40 twenty to nine Any unambiguous, correct indication, e.g. (0)8.40 (0)8;40 0840 (0)8 40 (0)8-40 Unambiguous change to 12- or 24-hour clock, e.g. 17:20 as 5:20pm or 17:20pm | Incorrect time, e.g. 8.4am 8.40pm Incorrect placement of separators, spaces, etc. or incorrect use or omission of 0 or use of a comma as a decimal point, e.g. 840 8:4:0 8.4 084 8,40 |  |

#### **Answers involving measures**

|                      | Accept  | Do not accept  |
|----------------------|---|--|
| Where units are      | 8.6kg   |  |
| given, e.g.<br>8.6kg | Any unambiguous indication of the correct measurement, e.g. | Incorrect or ambiguous use of units or use of comma as a decimal point, e.g. |
|                      | 8.60kg  | 8600kg   |
| kg                   | 8.6000kg  | 8kg 600  |
|                      | 8kg 600g  | 8,60kg   |
| m                    |   | 8,6000kg   |
| 1                    |   |  |

If a pupil gives an answer with a unit different to the unit in the answer box, then their answer must be equivalent to the correct answer provided, unless otherwise indicated in the mark scheme.

If a pupil leaves the answer box empty but writes the answer elsewhere on the page without any units, then that answer is assumed to have the units given in the answer box and the conditions listed above.

### Mark schemes for Paper 1: arithmetic

| Qu. | Requirement                         | Mark  | Additional guidance  |
|-----|-------------------------------------|-------|--|
| 1   | 47,009                              | 1m    | J  |
| 2   | -10                                 | 1m    |  |
| 3   | 12                                  | 1m    |  |
| 4   | 12,416                              | 1m    |  |
| 5   | 311.3                               | 1m    |  |
| 6   | 4 or $\frac{4}{5}$                  | 1m    |  |
| 7   | 3.66                                | 1m    |  |
| 8   | 32,000                              | 1m    |  |
| 9   | <u>17</u>                           | 1m    |  |
|     | 18                                  | _     |  |
| 10  | 170,000                             | 1m    |  |
| 11  | 100                                 | 1m    |  |
| 12  | 390                                 | 1m    |  |
| 13  | 308.16                              | 1m    |  |
| 14  | <b>5.6</b>                          | 1m    |  |
| 15  | $5\frac{7}{20}$ or $\frac{107}{20}$ | 1m    |  |
| 16  | 42                                  | 1m    |  |
| 17  | 5,001                               | 1m    |  |
| 18  | 131,001                             | 1m    |  |
| 19  | <del>4</del> <del>9</del>           | 1m    |  |
| 20  | 999                                 | 1m    |  |
| 21  | 30 or $\frac{24}{30}$               | 1m    |  |
| 22  | 3,020                               | 1m    |  |
| 23  | 70                                  | 1m    |  |
| 24  | 1,969.8                             | 1m    |  |
| 25  | 50                                  | 1m    |  |
| 26  | 299,064                             | 1m    |  |
| 27  | $\frac{9}{5}$ or $1\frac{4}{5}$     | 1m    |  |
| 28  | Award TWO marks for the             | up to |  |
|     | correct answer of 277,365           | 2m    |  |
|     |                                     |       |  |
|     | If the answer is incorrect,         |       | Working must be carried through to reach a final answer for            |
|     | award <b>ONE mark</b> for the       |       | the award of <b>ONE mark</b> .   |
|     | formal method of long               |       |  |
|     | multiplication with no more         |       | <b>Do not</b> award any marks if the error is in the place value, e.g. |
|     | than <b>ONE</b> arithmetic error,   |       | the omission of the zero when multiplying by tens:                     |
|     | i.e.                                |       | 6765   |
|     | 6765                                |       |  |
|     | x 41                                |       | <u>x 41</u><br>6765  |
|     | <u>x 41</u><br>6765                 |       | <u>+ 27060</u> place value error                                       |
|     | +270400 error: not including        |       | 3 2 2  |
|     | 3 2 2                               |       | 33825  |
|     | <u>277165</u> the 'carried' 200     |       |  |

| 29       | Award <b>TWO marks</b> for the correct answer of <b>56</b>  | up to<br>2m |  |
|----------|---|-------------|--|
|          | If the answer is incorrect, award <b>ONE mark</b> for the formal methods of division with no more than <b>ONE</b> |             | Working must be carried through to reach a final answer for the award of <b>ONE mark</b> .   |
|          | arithmetic error, i.e.  55 error totalling 28 1568  |             | Other formal methods can be used for the award of one mark.  |
|          | - 1400 (50 x)<br>168<br>- 140 (5 x)<br>28<br>- 28 (1 x)   |             | Short division methods must be supported by evidence of appropriate carrying figures to indicate the use of a division algorithm, and be a complete method. The carrying figure must be less than the divisor. |
|          | 0   | _           |  |
| 30<br>31 | 999.9   | 1m<br>1m    |  |
| 32       | 62,848  | 1m          |  |
| 33       | Award <b>TWO marks</b> for the correct answer of:<br><b>23r9</b> or <b>23.25</b> or <b>23</b> $\frac{1}{4}$       | up to<br>2m |  |
|          | If the answer is incorrect, award <b>ONE mark</b> for the   |             | Working must be carried through to reach a final answer for the award of <b>ONE mark</b> .   |
|          | formal methods of division with no more than <b>ONE</b> arithmetic error, i.e.                                    |             | Award <b>ONE mark</b> for the answer of 23 with no remainder, if the complete working is in place.   |
|          | 23r19<br>36 837   |             | Other formal methods can be used for the award of one mark.  |
|          | - 720 (20 x)<br>127 <i>error!</i><br>- 108 (3 x)<br>19  |             | Short division methods must be supported by evidence of appropriate carrying figures to indicate the use of a division algorithm, and be a complete method. The carrying figure must be less than the divisor. |

Total of 40 marks

### Mark schemes for Paper 2: reasoning

| Qu.        | Requirement                         | Mark  | Additional guidance  |
|------------|-------------------------------------|-------|--|
| <b>1</b> a | 98,600 and 99,000                   | 1m    | <u>-</u>   |
|            |                                     |       |  |
| 1b         | 21                                  | 1m    |  |
| 2          | 14.4 cm                             | 1m    |  |
| 3          | Award <b>TWO marks</b> for the      | up to |  |
|            | correct answer of 46                | 2m    |  |
|            |                                     |       |  |
|            | If the answer is incorrect,         |       | An answer need not be obtained for the award of <b>ONE</b> |
|            | award <b>ONE mark</b> for evidence  |       | mark.  |
|            | of an appropriate method, e.g.      |       |  |
|            | 45 + 33 + 55 + 47 + 50 = a          |       |  |
|            | $a \div 5 = incorrect answer$       |       |  |
| 4          | 5°C and -3°C                        | 1m    |  |
| 5a         | 31                                  | 1m    |  |
|            |                                     |       |  |
| 5b         | £1,656                              | 1m    |  |
| 6          | 60                                  | 1m    |  |
| 7          | Award <b>ONE mark</b> for a         | 1m    |  |
|            | parallelogram completed with        |       |  |
|            | a base of 7cm.                      |       |  |
|            |                                     |       |  |
|            |                                     |       |  |
|            |                                     |       |  |
|            |                                     |       |  |
|            |                                     |       |  |
|            |                                     |       |  |
| 8          | 0.2                                 | 1m    |  |
| 9          | Award <b>TWO marks</b> for all four | up to |  |
| ,          | letters in the correct place.       | 2m    |  |
|            |                                     | 2111  |  |
|            | 2850g C                             |       |  |
|            | 2.151                               |       |  |
|            | 3.15kg D                            |       |  |
|            | 2.4kg B                             |       |  |
|            | 2.718                               |       |  |
|            | 2100g A                             |       |  |
|            |                                     |       |  |
|            | Award <b>ONE mark</b> for any three |       |  |
|            | letters placed correctly.           |       |  |
| 10         | 350ml                               | 1m    |  |
| 11         | 6                                   | 1m    |  |

| 12   | Award <b>TWO marks</b> for the   | up to |  |
|------|--|-------|--|
|      | correct answer of £104   | 2m    |  |
|      |  |       |  |
|      | If the answer is incorrect,  |       | An answer need not be obtained for the award of <b>ONE</b>   |
|      | award <b>ONE mark</b> for evidence   |       | mark.  |
|      | of an appropriate method, e.g.   |       |  |
|      | 78 ÷ 6 = a   |       |  |
| _    | a x 8 = incorrect answer   |       |  |
| 13   | (2, 3)   | 1m    |  |
| 14a  | English  | 1m    |  |
| 1.46 | Davis  | 1     |  |
| 14b  | Music  | 1m    |  |
| 14c  | Award <b>ONE mark</b> for an   | 1m    |  |
| 140  | explanation which recognises   | 7111  |  |
|      | that the two numbers are out   |       |  |
|      | of different totals of children,   |       |  |
|      | i.e. science for boys was 3 out  |       |  |
|      | of 10 but science for girls was  |       |  |
|      | 3 out of 20.   |       |  |
| 15   | 40cm   | 1m    |  |
| 16   | 6  | 1m    |  |
| 17   | Award <b>THREE marks</b> for the   | up to |  |
|      | correct answer of <b>40</b>  | 3m    |  |
|      |  |       |  |
|      | If the answer is incorrect,  |       | Accept for <b>TWO marks</b> , sight of 1000p (or 20 cans) AND  |
|      |  |       | L 240n AND 460n AND 200n as all multiplication stops   |
|      | award <b>TWO marks</b> for sight of  |       | 240p AND 460p AND 300p as all multiplication steps   |
|      | £10 AND £2.40 AND £4.60  |       | completed correctly.   |
|      | £10 AND £2.40 AND £4.60<br>AND £3 as all multiplication  |       |  |
|      | £10 AND £2.40 AND £4.60 AND £3 as all multiplication steps completed correctly and   |       |  |
|      | £10 AND £2.40 AND £4.60<br>AND £3 as all multiplication<br>steps completed correctly and<br>20 ÷ 0.5 or 2,000 ÷ 50 = wrong   |       |  |
|      | £10 AND £2.40 AND £4.60 AND £3 as all multiplication steps completed correctly and   |       |  |
|      | £10 AND £2.40 AND £4.60<br>AND £3 as all multiplication<br>steps completed correctly and<br>20 ÷ 0.5 or 2,000 ÷ 50 = wrong<br>answer.  |       |  |
|      | £10 AND £2.40 AND £4.60 AND £3 as all multiplication steps completed correctly and 20 ÷ 0.5 or 2,000 ÷ 50 = wrong answer.  If the answer is incorrect,   |       | completed correctly.   |
|      | £10 AND £2.40 AND £4.60<br>AND £3 as all multiplication<br>steps completed correctly and<br>20 ÷ 0.5 or 2,000 ÷ 50 = wrong<br>answer.  |       | An answer need not be obtained for the award of <b>ONE</b>   |
|      | £10 AND £2.40 AND £4.60 AND £3 as all multiplication steps completed correctly and 20 ÷ 0.5 or 2,000 ÷ 50 = wrong answer.  If the answer is incorrect, award TWO marks for sight of  |       | An answer need not be obtained for the award of <b>ONE</b> mark.   |
|      | £10 AND £2.40 AND £4.60 AND £3 as all multiplication steps completed correctly and 20 ÷ 0.5 or 2,000 ÷ 50 = wrong answer.  If the answer is incorrect, award TWO marks for sight of 20 cans AND £2.40 AND £4.60  |       | An answer need not be obtained for the award of <b>ONE</b> mark.  A misread of a number may affect the award of marks. No  |
|      | £10 AND £2.40 AND £4.60 AND £3 as all multiplication steps completed correctly and 20 ÷ 0.5 or 2,000 ÷ 50 = wrong answer.  If the answer is incorrect, award TWO marks for sight of 20 cans AND £2.40 AND £4.60 AND £3 as all multiplication   |       | An answer need not be obtained for the award of <b>ONE</b> mark.  A misread of a number may affect the award of marks. No marks are awarded if there is more than one misread or if  |
|      | £10 AND £2.40 AND £4.60 AND £3 as all multiplication steps completed correctly and 20 ÷ 0.5 or 2,000 ÷ 50 = wrong answer.  If the answer is incorrect, award TWO marks for sight of 20 cans AND £2.40 AND £4.60 AND £3 as all multiplication steps completed correctly and   |       | An answer need not be obtained for the award of <b>ONE</b> mark.  A misread of a number may affect the award of marks. No marks are awarded if there is more than one misread or if the mathematics is simplified.   |
|      | £10 AND £2.40 AND £4.60 AND £3 as all multiplication steps completed correctly and 20 ÷ 0.5 or 2,000 ÷ 50 = wrong answer.  If the answer is incorrect, award TWO marks for sight of 20 cans AND £2.40 AND £4.60 AND £3 as all multiplication steps completed correctly and 20 plus (10 ÷ 0.5) or   |       | An answer need not be obtained for the award of ONE mark.  A misread of a number may affect the award of marks. No marks are awarded if there is more than one misread or if the mathematics is simplified.  TWO marks will be awarded if an appropriate complete method with the misread number is followed through correctly.  |
|      | £10 AND £2.40 AND £4.60 AND £3 as all multiplication steps completed correctly and 20 ÷ 0.5 or 2,000 ÷ 50 = wrong answer.  If the answer is incorrect, award TWO marks for sight of 20 cans AND £2.40 AND £4.60 AND £3 as all multiplication steps completed correctly and 20 plus (10 ÷ 0.5) or 20 plus (1000 ÷ 50) = wrong answer.   |       | An answer need not be obtained for the award of <b>ONE</b> mark.  A misread of a number may affect the award of marks. No marks are awarded if there is more than one misread or if the mathematics is simplified.  TWO marks will be awarded if an appropriate complete method with the misread number is followed through correctly.  ONE mark will be awarded for:  |
|      | £10 AND £2.40 AND £4.60 AND £3 as all multiplication steps completed correctly and 20 ÷ 0.5 or 2,000 ÷ 50 = wrong answer.  If the answer is incorrect, award TWO marks for sight of 20 cans AND £2.40 AND £4.60 AND £3 as all multiplication steps completed correctly and 20 plus (10 ÷ 0.5) or 20 plus (1000 ÷ 50) = wrong answer.  Award ONE mark for evidence                            |       | An answer need not be obtained for the award of ONE mark.  A misread of a number may affect the award of marks. No marks are awarded if there is more than one misread or if the mathematics is simplified.  TWO marks will be awarded if an appropriate complete method with the misread number is followed through correctly.  ONE mark will be awarded for:  • all multiplication steps completed correctly with the  |
|      | £10 AND £2.40 AND £4.60 AND £3 as all multiplication steps completed correctly and 20 ÷ 0.5 or 2,000 ÷ 50 = wrong answer.  If the answer is incorrect, award TWO marks for sight of 20 cans AND £2.40 AND £4.60 AND £3 as all multiplication steps completed correctly and 20 plus (10 ÷ 0.5) or 20 plus (1000 ÷ 50) = wrong answer.  Award ONE mark for evidence of an appropriate complete |       | An answer need not be obtained for the award of ONE mark.  A misread of a number may affect the award of marks. No marks are awarded if there is more than one misread or if the mathematics is simplified.  TWO marks will be awarded if an appropriate complete method with the misread number is followed through correctly.  ONE mark will be awarded for:  • all multiplication steps completed correctly with the misread number followed by division.   |
|      | £10 AND £2.40 AND £4.60 AND £3 as all multiplication steps completed correctly and 20 ÷ 0.5 or 2,000 ÷ 50 = wrong answer.  If the answer is incorrect, award TWO marks for sight of 20 cans AND £2.40 AND £4.60 AND £3 as all multiplication steps completed correctly and 20 plus (10 ÷ 0.5) or 20 plus (1000 ÷ 50) = wrong answer.  Award ONE mark for evidence                            |       | An answer need not be obtained for the award of ONE mark.  A misread of a number may affect the award of marks. No marks are awarded if there is more than one misread or if the mathematics is simplified.  TWO marks will be awarded if an appropriate complete method with the misread number is followed through correctly.  ONE mark will be awarded for:  all multiplication steps completed correctly with the misread number followed by division.  OR   |
|      | £10 AND £2.40 AND £4.60 AND £3 as all multiplication steps completed correctly and 20 ÷ 0.5 or 2,000 ÷ 50 = wrong answer.  If the answer is incorrect, award TWO marks for sight of 20 cans AND £2.40 AND £4.60 AND £3 as all multiplication steps completed correctly and 20 plus (10 ÷ 0.5) or 20 plus (1000 ÷ 50) = wrong answer.  Award ONE mark for evidence of an appropriate complete |       | An answer need not be obtained for the award of ONE mark.  A misread of a number may affect the award of marks. No marks are awarded if there is more than one misread or if the mathematics is simplified.  TWO marks will be awarded if an appropriate complete method with the misread number is followed through correctly.  ONE mark will be awarded for:  all multiplication steps completed correctly with the misread number followed by division.  OR  evidence of an appropriate complete method with the  |
|      | £10 AND £2.40 AND £4.60 AND £3 as all multiplication steps completed correctly and 20 ÷ 0.5 or 2,000 ÷ 50 = wrong answer.  If the answer is incorrect, award TWO marks for sight of 20 cans AND £2.40 AND £4.60 AND £3 as all multiplication steps completed correctly and 20 plus (10 ÷ 0.5) or 20 plus (1000 ÷ 50) = wrong answer.  Award ONE mark for evidence of an appropriate complete |       | An answer need not be obtained for the award of ONE mark.  A misread of a number may affect the award of marks. No marks are awarded if there is more than one misread or if the mathematics is simplified.  TWO marks will be awarded if an appropriate complete method with the misread number is followed through correctly.  ONE mark will be awarded for:  all multiplication steps completed correctly with the misread number followed by division.  OR  evidence of an appropriate complete method with the misread number followed through correctly with no more |
| 18   | £10 AND £2.40 AND £4.60 AND £3 as all multiplication steps completed correctly and 20 ÷ 0.5 or 2,000 ÷ 50 = wrong answer.  If the answer is incorrect, award TWO marks for sight of 20 cans AND £2.40 AND £4.60 AND £3 as all multiplication steps completed correctly and 20 plus (10 ÷ 0.5) or 20 plus (1000 ÷ 50) = wrong answer.  Award ONE mark for evidence of an appropriate complete | 1m    | An answer need not be obtained for the award of ONE mark.  A misread of a number may affect the award of marks. No marks are awarded if there is more than one misread or if the mathematics is simplified.  TWO marks will be awarded if an appropriate complete method with the misread number is followed through correctly.  ONE mark will be awarded for:  all multiplication steps completed correctly with the misread number followed by division.  OR  evidence of an appropriate complete method with the  |

|     |  | 1     |  |
|-----|--|-------|--|
| 19  | Award <b>ONE mark</b> for an   | 1m    |  |
|     | explanation that recognises  |       |  |
|     | that 30% of 60 and 60% of 30   |       |  |
|     | both give a value of <b>18</b> .   |       |  |
| 20  | Award <b>TWO marks</b> for all   | up to |  |
|     | three questions matched  | 2m    |  |
|     | correctly with the calculation.  |       |  |
|     | How many classes are there altogether in Years 5 and 6?  How many pupils are there altogether in Years 5 and 6?  How many more pupils are there in Year 6 than in Year 5?  How many more children are there in one Year 6 class than in one Year 6 class?  Award ONE mark for any two correct matches. |       |  |
| 21  | 12   | 1m    | Accept the combinations written, e.g.                      |
|     |  | _,,,  | A1, A2, A3, A4, B1, B2, B3, B4, C1, C2, C3, C4             |
| 22a | 8 kilometres   | 1m    |  |
|     |  |       |  |
| 22b | 22 miles   | 1m    |  |
| 23  | Award <b>TWO marks</b> for the   | up to |  |
|     | correct answer of 10.6cm.  | 2m    |  |
|     |  |       |  |
|     | If the answer is incorrect,  |       | An answer need not be obtained for the award of <b>ONE</b> |
|     | award <b>ONE</b> mark for evidence   |       | mark.  |
|     | of an appropriate method, e.g.   |       |  |
|     | 8.48 ÷ 4 = a   |       |  |
|     | a x 5 = wrong answer   |       |  |

Total of 35 marks