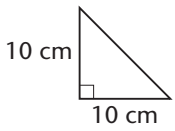
Question	Support	Answer
1 Multiply 6.08 by one thousand.		
2 Write one quarter as a decimal.		
3 35% of a number is 42. What is 70% of the number?		
4 One ticket costs £17.50. What will four tickets cost?	£17.50	
5 Write an approximate answer to the calculation on your answer sheet.	198.7 ÷ 4.98	
6 How many millilitres are in a litre?		
7 What is the area of the triangle on your answer sheet?		
8 Simplify the expression on your answer sheet as fully as possible.	$y \times y \times y$	
9 Look at the equation on your answer sheet. Work out the value of $5k$.	$3k = 18$	
10 What is the mean of the four numbers on your answer sheet?	19, 21, 23, 37	

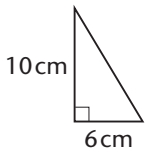
Key Stage 3 Strategy | DfES 0937-2004 G | © Crown copyright 2004

Question	Support	Answer
1 What is 7.4 multiplied by one hundred?		
2 Write 0.3 as a fraction.	0.3	
3 25% of a number is 12. What is the number?		
4 One magazine costs £1.95. What will be the cost of five of these?	£1.95	
5 Write an approximate answer to the calculation on your answer sheet.	$59.7 \div 2.97$	
6 How many metres are there in two and a half kilometres?		
7 A square has a perimeter of 24 m. What is its area?		
8 Look at the expression on your answer sheet. Double it.	$6ab$	
9 The value of $3x + 2$ is 7. Work out the value of $6x + 4$.	$3x + 2$ $6x + 4$	
10 What is the mean of the four numbers on your answer sheet ?	60, 40, 10, 10	

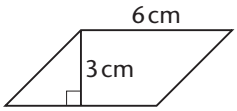
Key Stage 3 Strategy | DfES 0937-2004 G | © Crown copyright 2004

Question	Support	Answer
1 What is 86 multiplied by ten?		
2 Write six tenths as a decimal number.		
3 50% of a number is 45. What is the number?		
4 What is the cost of five mugs at £1.99 each?	£1.99	
5 Estimate the value of 502 ÷ 49.	502 49	
6 How many metres are in one kilometre?		
7 Each side of a square is 27 cm. What is its perimeter?		
8 Look at the expression on your answer sheet. Simplify it.	$6k + 3m + k + 2m$	
9 The value of the expression $4k + 2n$ is 82. Write an expression involving k and n which is equal to 41.	$4k + 2n$ 82	
10 On your answer sheet are the numbers of goals scored during five matches. Work out the mean number of goals scored.	0, 0, 2, 4, 9	

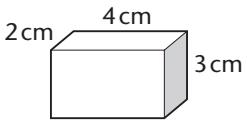
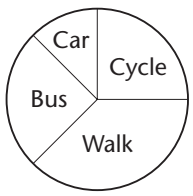
Key Stage 3 Strategy | DfES 0937-2004 G | © Crown copyright 2004

Question	Support	Answer
1 What is 5.1 multiplied by one thousand?		
2 Write two fifths as a decimal.	$\frac{2}{5}$	
3 Ten per cent of a number is 16. What is the number?		
4 Divide £44 equally among eight people. How much money does each person get?	£44 8	
5 Write an approximate answer to 50.6 ÷ 0.49.	50.6 0.49	
6 Change 107 millimetres into centimetres.		
7 Look at the triangle on your answer sheet. What is its area?		
8 I cut a pole 5 feet long into two pieces. One of the pieces is x feet long. Write an expression for the length of the other piece.		
9 Look at the equation on your answer sheet. Use it to work out the value of $x + 2$.	$x - 1 = 45$	
10 On your answer sheet are the numbers of sweets in four bags. What is the mean number of sweets in a bag?	48, 49, 50, 53	

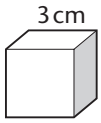
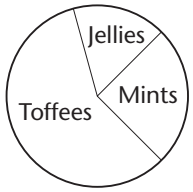
Key Stage 3 Strategy | DfES 0937-2004 G | © Crown copyright 2004

Question	Support	Answer
1 What is 300 divided by ten?		
2 Write three hundredths as a decimal.		
3 40% of a number is 16. What is the number?		
4 Twenty-five calculators in a box cost £500. How much did each calculator cost?	£500 25	
5 Look at the calculation on your answer sheet. Work out an approximate answer.	$(80.18 \times 9.89) \div 1.96$	
6 Look at the measurements on your answer sheet. Which one is about the same length as 1 metre? Circle the answer.	0.3 ft 3 ft 30 ft 300 ft	
7 Look at the shape on your answer sheet. What is its area?		
8 *n* stands for a number. Write an expression for 'add 5 to *n* and multiply the result by 3'.		
9 Look at the equation on your answer sheet. Write, in terms of *t*, an expression for $m + 5$.	$m + 7 = t$	
10 The mean of *a*, *b* and *c* is 10. If *a* is 6 and *b* is 11, what is *c*?	$a = 6$ $b = 11$	

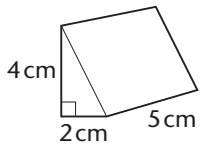
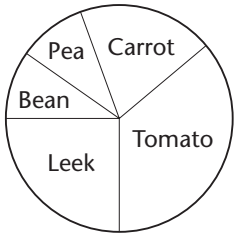
Key Stage 3 Strategy | DfES 0937-2004 G | © Crown copyright 2004

Question	Support	Answer
1 Look at the calculation on your answer sheet. Use it to help you work out the answer to 14×3.9	$14 \times 39 = 546$	
2 What is half of 138?		
3 Four out of fifty pupils were absent from school. What percentage were absent?		
4 In a group of 73 children, 39 are girls. How many are boys?		
5 Round 8.37 to one decimal place.	8.37	
6 A TV programme starts at 10 to 8 and lasts 25 minutes. What time does the programme finish?		
7 What is the volume of the cuboid on your answer sheet ?		
8 Look at the equation. What is the value of n?	$26 - 2n = 8$	
9 The probability of a train being early or on time is 0.8. What is the probability of it being late?		
10 The pie chart on your answer sheet shows how 200 pupils travel to school. Roughly how many of these pupils cycle to school?		

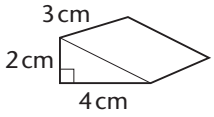
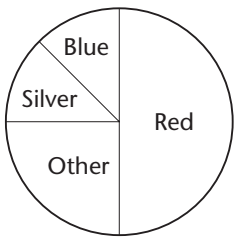
Key Stage 3 Strategy | DfES 0937-2004 G | © Crown copyright 2004

Question	Support	Answer
1 Use the multiplication on your answer sheet to work out 18×7.	$18 \times 70 = 1260$	
2 What is one quarter of two hundred thousand? Write your answer in figures.		
3 Jean got 15 out of 20 in a test. What percentage did she get?		
4 Subtract 28 from 170.		
5 Round the number on your answer sheet to two decimal places.	135.769	
6 A film starts at 6:15. It lasts for $2\frac{1}{2}$ hours. What time will it finish?	6:15	
7 What is the volume of a 3cm cube?		
8 Solve the equation on your answer sheet. Solve it to find the value of y.	$5y = 3y + 8$	
9 The probability that I am late for work is 0.1. What is the probability that I am not late?	0.1	
10 The pie chart on your answer sheet shows the different types of sweets in a bag. If there are 8 mints in the bag, how many sweets are there altogether?		

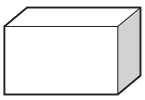
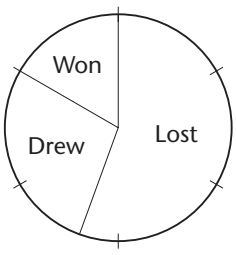
Key Stage 3 Strategy | DfES 0937-2004 G | © Crown copyright 2004

Question	Support	Answer
1 Look at the calculation on your answer sheet. What is 448 divided by 1.6?	$28 \times 16 = 448$	
2 What is three quarters of £60?	£60	
3 201 out of 298 people said they could swim. Estimate this as a percentage.	201 298	
4 Subtract 135 from 234.		
5 Look at the calculation on your answer sheet. Write down an approximate answer which is correct to one significant figure.	$48.14 \div 5.91$	
6 A lesson starts at 9:50 and finishes at 10:15. How long is the lesson?	9:50 10:15	
7 What is the volume of the prism on your answer sheet?		
8 Look at the equation on your answer sheet. Write down the value of x.	$x^2 = 9$	
9 In a country the probability that it will rain in August is 0.05. What is the probability that it will not rain in August?		
10 The pie chart on your answer sheet shows the sales for different soups. About what percentage is for the sale of tomato?		

Key Stage 3 Strategy | DfES 0937-2004 G | © Crown copyright 2004

Question	Support	Answer
1 Look at the multiplication on your answer sheet. Use it to calculate 6460 divided by 17.	$17 \times 38 = 646$ $6460 \div 17$	
2 What is three fifths of £20?		
3 The price of a ticket increases from £5 to £6. What is the percentage increase?		
4 What is 5.4 added to 3.7?		
5 A line is measured as 0.7 cm to the nearest mm. What is the minimum length that the line could be?		
6 A forty-five minute lesson ended at 10:20. When did it start?	45 10:20	
7 What is the volume of the prism on your answer sheet?		
8 Look at the equation on your answer sheet. Write what number x could be.	$x^2 = x$	
9 The probability that I get a king from a pack of playing cards is one thirteenth. What is the probability that I do not get a king?	$\frac{1}{13}$	
10 The pie chart on your answer sheet shows the numbers of different coloured cars in the car park. There were 60 red cars in the car park. Approximately how many blue cars were there?		

Key Stage 3 Strategy | DfES 0937-2004 G | © Crown copyright 2004

Question	Support	Answer
1 Use the calculation on your answer sheet to work out how many 19s there are in 3230.	$19 \times 340 = 6460$	
2 A quarter of a number is 1.25. What is the number?	1.25	
3 The price of a train ticket goes up from £5 to £5.25. What is the percentage increase?	£5 £5.25	
4 What is the sum of these numbers?	3.8, 1.2, 3.8, 1.2	
5 Anna measures the distance between two towns. She says that the distance is 28 km to the nearest km. What is the minimum distance it could be?	28 km	
6 A train travels at 80 miles per hour. How far does it travel in $2\frac{1}{2}$ hours?	80	
7 A cuboid has edges 3 cm, 4 cm and 5 cm. Its volume is 60 cubic centimetres. What is the volume of a cuboid with edges twice as long?		
8 Look at the equation. j and k are consecutive numbers. Write down values for j and k.	$2j + k = 22$	
9 I throw two dice. The probability that I get a total of 8 is $\frac{5}{36}$. What is the probability that I don't get a total of 8?	$\frac{5}{36}$	
10 The pie chart on your answer sheet shows the results of one team in a season. The team won nine games. How many games did the team play in the whole season?		

Key Stage 3 Strategy | DfES 0937-2004 G | © Crown copyright 2004

Question	Support	Answer
1 Write in figures: four thousand and eight.		
2 What is 10% of £290?	£290	
3 What is 18 multiplied by 9?		
4 Look at the calculation on your answer sheet and work out the answer.	$7 \times (3 + 4)$	
5 Huw and Lynn share some money in the ratio 3 : 4. Huw's share is £150. How much is Lynn's share?	3 : 4 £150	
6 Two angles of a triangle are each 70 degrees. What is the third angle?		
7 Imagine a robot moving so that it is always the same distance from a fixed point. Describe the shape of the path the robot makes.		
8 Look at the expression on your answer sheet. What is its value when $x = 4$?	$2x + 1$	
9 I have a fair six-sided dice. I roll the dice. What is the probability that I roll an odd number?		
10 What is the square root of 81?		

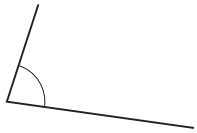
Key Stage 3 Strategy | DfES 0937-2004 G | © Crown copyright 2004

Question	Support	Answer
1 Write the number six and a half million in figures.		
2 What is 30% of £70?	£70	
3 What is 128 multiplied by 5?		
4 Look at the calculation on your answer sheet. Work out the answer.	15 – (3.9 + 6.1)	
5 The ratio of men to women in a room is 3 : 5. There are 12 men. How many women are there?	3 : 5	
6 Two of the angles of a triangle are 47 and 85 degrees. What is the size of the third angle?		
7 Imagine two trees. Now imagine walking so that you are always an equal distance from each tree. Describe the shape of the path that you walk.		
8 Look at the expression on your answer sheet. If $m = 9$, what is the value of the expression?	$2(m + 1)$	
9 I have a fair six-sided dice. I roll the dice. What is the probability that I roll a number less than 5?		
10 Look at the equation on your answer sheet. If $c = 8$, what is d?	$d^2 = 2c + 9$	

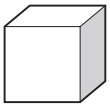
Key Stage 3 Strategy | DfES 0937-2004 G | © Crown copyright 2004

Question	Support	Answer
1 Write in figures the number that is five less than one thousand.		
2 What is 15% of £20?	15%	
3 What is 117 multiplied by 4?		
4 Look at the calculation on your answer sheet. Write down the answer.	34.2 ÷ (7.2 + 2.8)	
5 The members of a youth club are girls and boys in the ratio 3 : 5. If there are 21 girls, how many boys are there?	3 : 5 21	
6 Two angles fit together on a straight line. One angle is 86 degrees. How many degrees is the other angle?		
7 Imagine a regular square-based pyramid. Imagine another identical pyramid. Stick their square faces together. How many faces does the new shape have?		
8 Look at the equation on your answer sheet. If $a = 8$, what is b?	$b = 9a - 18$	
9 In a year group there are one hundred pupils. Sixty of the pupils are boys. What is the probability that a pupil chosen at random is a boy?	100 pupils 60 boys	
10 What is the square root of one million?		

Key Stage 3 Strategy | DfES 0937-2004 G | © Crown copyright 2004

Question	Support	Answer
1 Write in figures the number that is one less than seven and a half million.		
2 What is $2\frac{1}{2}$% of £10?	$2\frac{1}{2}$% £10	
3 What is 5 multiplied by 6 multiplied by 7?		
4 Subtract 0.4 from one and then double your answer.	0.4	
5 The scale of a map is 1 cm to 10 km. On the map two towns are $5\frac{1}{2}$ cm apart. What is the actual distance between the towns?	1 cm 10 km	
6 Estimate the size of the angle on your answer sheet in degrees.		
7 I face south and turn 90 degrees clockwise. Which direction am I now facing?		
8 Look at the equation on your answer sheet. If $m = 6$, what is h?	$h = \frac{7m}{2}$	
9 There are 4 red and 6 blue cubes in a bag. What is the probability that I choose a blue cube from the bag?		
10 Look at the pairs of numbers on your answer sheet. Between which pair of numbers does the square root of 152 lie? Put a ring around the correct pair.	11, 12 12, 13 13, 14 14, 15 15, 16	

Key Stage 3 Strategy | DfES 0937-2004 G | © Crown copyright 2004

Question	Support	Answer
1 Write in figures the number that is one less than a quarter of a million.		
2 What is the approximate value of 51% of £26.22?	51% £26.22	
3 Multiply 25 by 28.		
4 I bought 4 books at £3.95 each. I paid with a twenty pound note. What change did I get?	£20 £3.95	
5 You get $68 for £40. How many dollars would you get for £100?	68 dollars £40	
6 Look at the angle on your answer sheet. Estimate its size in degrees.		
7 Look at the picture of a cube on your answer sheet. How many cubes of this size would you need to make a cube that has dimensions twice the dimensions of this cube?		
8 The *n*th term of a sequence is *n* plus two all squared. What is the value of the seventh term of the sequence?	$(n + 2)^2$	
9 The probability of a train being late is 0.3. Of fifty trains, about how many would you expect to be late?		
10 A square has an area of 29 square centimetres. You want to work out the length of one of the sides. Between which two whole numbers does the length lie?	29 cm^2	

Key Stage 3 Strategy | DfES 0937-2004 G | © Crown copyright 2004