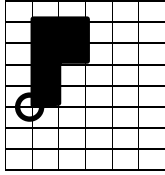
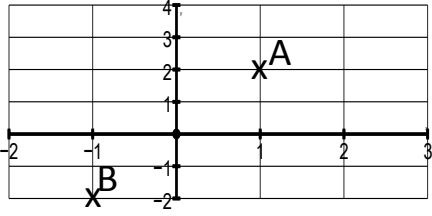
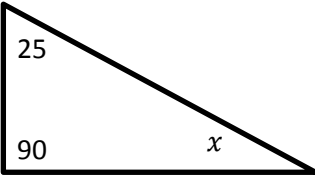
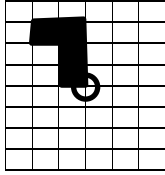
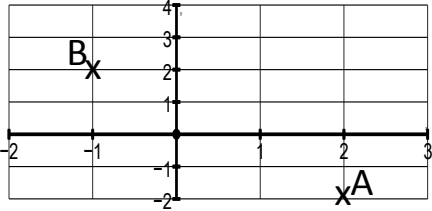
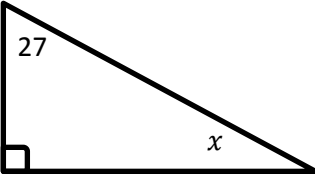


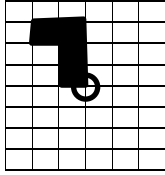
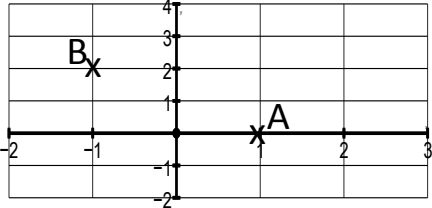
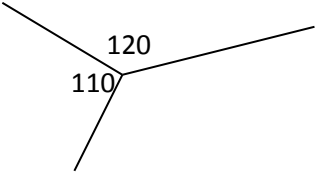
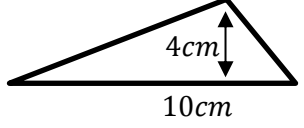
Level 5 Core Skills Practice Sheet 1

<b>Section A: Numbers</b>		<b>Section C: Algebra</b>		16. Rotate the following shape by $90^\circ$ clockwise about O		
1. Find the missing numbers $4 \div 100 = ?$ $? \times 10 = 3$	?= ? =	12i simplify $5x + 2x + 8 - 3x - 14$				
2. Round 32.76 to 1 dp		12ii If $a = 3$ find the value of: $5(a + 3)$				
3. Write down the next 3 terms in the sequence: 5, 10, 20, ...		13 Write coordinates A and B		A:	18. A cat measures 57cm. Write this in metres	
4.1 Find the missing numerator $\frac{3}{4} = \frac{?}{20}$				B:		19. A rectangle has an area of $32\text{cm}^2$ . Its base is 8cm, what is its height?
4.2. Write down the decimal equivalent to $\frac{3}{4}$						
5. Write $\frac{12}{15}$ in its simplest form				<b>Section E: handling data</b>		
6. 30 children go on a trip. Boys and girls are in the ratio 3:7. How many girls are there?		<b>Section D: Shape and Space</b>		20. A bag contains the letters: I L O V E M A T H S. Find the probability of picking a vowel		
<b>Section B: Calculating</b>		14. write down the order of rotational symmetry of a regular hexagon		22. Find the mean and median of the following discrete data: 5, 6, 8, 10, 12, 5		
7. Calculate $11 \times 3.6$		15. Find the missing angle in the following triangle		23. Jack tosses a coin 10 times and gets 4 heads. Sally tosses the coin 100 times and gets 45 heads. Estimate the probability of getting a Head		
8.1 Find 15% of £30						
8.2. Find $\frac{1}{5}$ of £30						
9. calculate $32 \times 17$						
10. The temperature in Moscow was $-34^\circ\text{C}$ . If this increases by $42^\circ\text{C}$ what is the new temperature						
11. If 8 cans of coke cost £3.60, how much would 12 cans cost?						

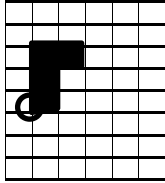
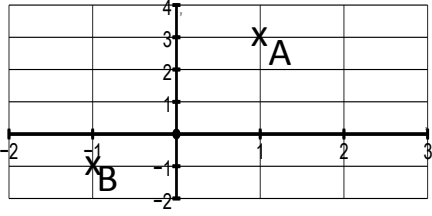
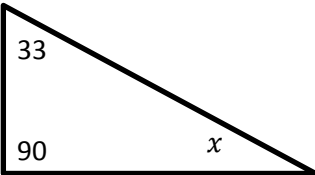
Level 5 Core Skills Practice Sheet 2

<b>Section A: Numbers</b>		<b>Section C: Algebra</b>		16. Rotate the following shape by $90^\circ$ anti-clockwise about O		
1. Find the missing numbers $0.3 \times 100 = ?$ $? \times 100 = 4$		12i simplify $10x - 2y - 4x + 7y$				
2. Round 5.32 to 1 dp		12ii If $a = 5$ find the value of: $4 + 3a$				
3. Write down the next 2 terms in the sequence: 80, 40, 20...		13 Write coordinates A and B	A:	18. Sam drinks 330ml. How much is this in litres		
4.1 Find the missing denominator $\frac{7}{10} = \frac{28}{?}$			B:	19. Find the area of a triangle with a base of 17cm and a height of 3cm.		
4.2. Write down the decimal equivalent to $\frac{3}{10}$					<b>Section E: handling data</b>	
5. Write $\frac{10}{35}$ in its simplest form					20. A bag has 3 yellow sweets and 9 red sweets. Find the probability of getting a red sweet.	
6. Paul and Pam share money in the ratio 2: 5. If Paul gets £42. How much does Pam get?		<b>Section D: Shape and Space</b>		22. Find the mean of the data: 5, 4.5, 0.5, 2		
<b>Section B: Calculating</b>		14. How many sides does a pentagon have?		23. Mark thinks the probability of it raining is 0.2. He records the weather on 100 days. It rains 30 times. Write down your estimate for the probability of it raining.		
7. Calculate $11 \times 0.3$		15. Find the missing angle in the following triangle				
8.1 Find 35% of £50						
8.2. Find $\frac{1}{7}$ of £35						
9. calculate $19 \times 12$						
10. Simon has £320. He loses £535. How much is he in debt?						
11. 10 sweets cost £1.20. How much would 25 sweets cost?						

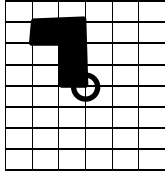
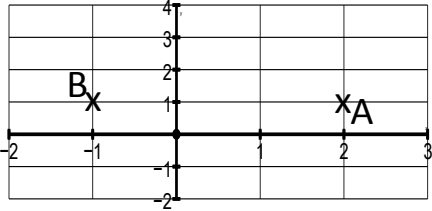
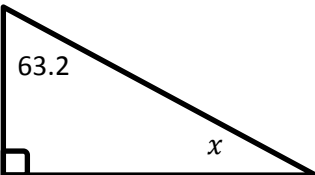
Level 5 Core Skills Practice Sheet 3

<b>Section A: Numbers</b>		<b>Section C: Algebra</b>		16. Rotate the following shape by 180°	
1. Find the missing numbers $30 \div 100 = ?$		12i simplify $3y - 9x - 3x + 4y$			
2. Which is the largest number: -3 or -7 or -5		12ii If $a = 5$ find the value of: $3a^2$			
3. What is the first term in this sequence: ?, 5, 10, 20		13 Write down midpoint of A and B	A:	18. How many mm are there in two metres?	
4.1 Find the missing denominator $\frac{15}{50} = \frac{3}{?}$			B:	19. What is the perimeter of a rectangle with a height of 2cm and a base of 7cm?	
4.2. Write down the decimal equivalent to $\frac{3}{5}$					<b>Section E: handling data</b>
5. Write $\frac{14}{21}$ in its simplest form		<b>Section D: Shape and Space</b>		20. The ratio of boys to girls is 1:3. What is the probability of picking a boy?	
6. Simplify the ratio: 15: 20		14. What is the order of rotational symmetry of a parallelogram		22. Find the median of: 4, 8, 11, 20	
<b>Section B: Calculating</b>		15. Find the missing angle		23. Find area of this triangle:	
7. Calculate $12 \times 2.3$					
8.1 Find 90% of £300					
8.2. Find $\frac{1}{11}$ of £44					
9. calculate $230 \div 5$					
10. The temperature rises by 17° to 5°. What was it before?					
11. 9 toys cost £33. How much would 3 toys cost?					

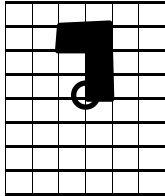
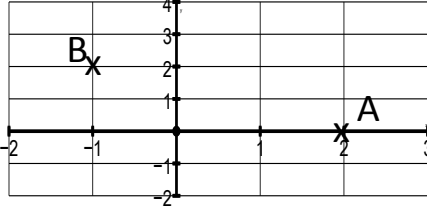
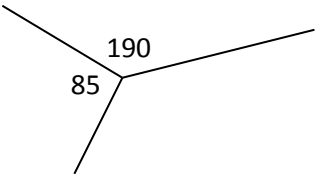
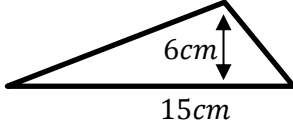
Level 5 Core Skills Practice Sheet 4

<b>Section A: Numbers</b>		<b>Section C: Algebra</b>		16. Rotate the following shape by $90^\circ$ clockwise about O	
1. Find the missing numbers $3 \div 100 = ?$ $? \times 100 = 40$	? = ? =	12i simplify $3x - 8 + 7x + 15$			
2. Round 4.89 to 1 dp		12ii If $a = 4$ find the value of: $3(a + 2)$			
3. Write down the next 3 terms in the sequence: 1, 2, 4, 8, ...		13 Write coordinates A and B	A:	18. A book weighs 302g. Write this in kilograms	
4.1 Find the missing numerator $\frac{5}{6} = \frac{?}{30}$			B:	19. A rectangle has an area of $40\text{cm}^2$ . Its base is 5cm, what is its height?	
4.2. Write down the decimal equivalent to $\frac{7}{10}$					<b>Section E: handling data</b>
5. Write $\frac{15}{20}$ in its simplest form		<b>Section D: Shape and Space</b>		20. A bag contains 3 red and 7 green sweets. Find the probability of picking a red sweet.	
6. 50 children go on a trip. Boys and girls are in the ratio 2:3. How many boys are there?		14. write down the order of rotational symmetry of a regular pentagon		22. Find the mean and median of the following discrete data: 4, 7, 8, 13	
<b>Section B: Calculating</b>		15. Find the missing angle in the following triangle		23. Jack rolls a biased dice 10 times and gets a six twice. Write down the probability of getting a six based on Jack's experiment.	
7. Calculate $11 \times 4.2$					
8.1 Find 35% of £40					
8.2. Find $\frac{1}{6}$ of £24					
9. calculate $28 \times 13$					
10. Find $-27 + 64$					
11. If 9 sweets cost 27p, how much would 12 sweets cost?					

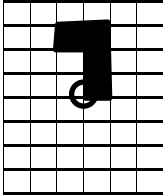
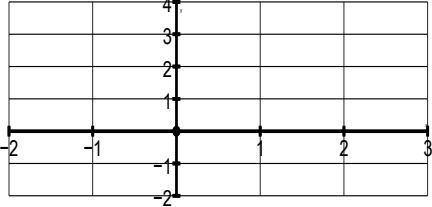
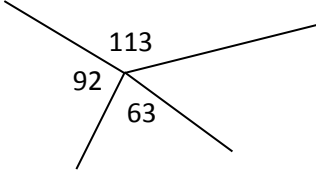
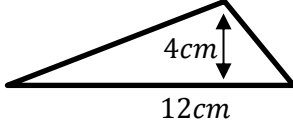
Level 5 Core Skills Practice Sheet 5

<b>Section A: Numbers</b>		<b>Section C: Algebra</b>		16. Rotate the following shape by $90^\circ$ clockwise about O		
1. Find the missing numbers $0.22 \times 100 = ?$ $? \times 10 = 4.2$		12i simplify $10ab - 7ab$				
2. Round 5.996 to 1 dp		12ii If $a = 6$ find the value of: $2a + 3$				
3. Write down the next 2 terms in the sequence: 120, 60, 30, ...		13 Write coordinates A and B	A:			
4.1 Find the missing denominator $\frac{11}{40} = \frac{44}{?}$			B:	18. Sam drinks 70ml. How much is this in litres		
4.2. Write down the decimal equivalent to $\frac{9}{10}$					19. Find the area of a triangle with a base of $6\text{cm}$ and a height of $8\text{cm}$ .	
5. Write $\frac{30}{54}$ in its simplest form					<b>Section E: handling data</b>	
6. Paul and Pam share money in the ratio 3: 4. If Pam gets £6. How much does Paul get?		<b>Section D: Shape and Space</b>		20. On a standard dice, what is the probability of rolling at least a 2		
<b>Section B: Calculating</b>		14. How many sides does an octagon have?		22. Find the mean of the data: $-3, 5, 7$		
7. Calculate $21 \times 0.2$		15. Find the missing angle in the following triangle		23. Sam notes that it snows on 22 out of 100 days. Write down an estimate for the probability of snow.		
8.1 Find 15% of £400						
8.2. Find $\frac{1}{9}$ of £540						
9. calculate $32 \times 26$						
10. Simon has had -£127. He gains £432. How much has he now?						
11. 8 sweets cost 20 pence. How much would 12 sweets cost?						

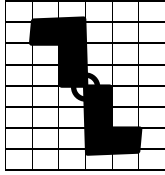
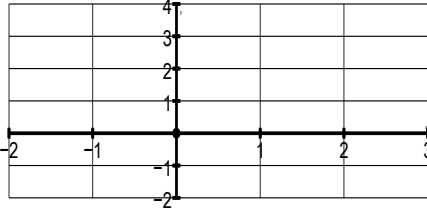
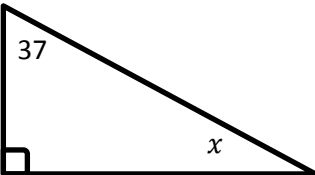
Level 5 Core Skills Practice Sheet 6

<b>Section A: Numbers</b>		<b>Section C: Algebra</b>		16. Rotate the following shape by 180°	
1. Find the missing numbers $52 \div 100 = ?$		12i simplify $5x - 2y + 7x - 9y$			
2. Which is the largest number: -11 or -2 or -12		12ii If $a = 3$ find the value of: $2a + 7$			
3. What is the first term in this sequence: ?, 1, 2, 4, 8		13 Write down midpoint of A and B	A:	18. How many cm are there in 3km?	
4.1 Find the missing denominator $\frac{5}{12} = \frac{20}{?}$			B:	19. What is the perimeter of a rectangle with a height of 3cm and a base half the height.	
4.2. Write down the decimal equivalent to $\frac{11}{50}$					<b>Section E: handling data</b>
5. Write $\frac{75}{100}$ in its simplest form		<b>Section D: Shape and Space</b>		20. Jack's win:loss ratio is 3:7. What is the probability of him winning?	
6. Simplify the ratio: 22: 33		14. How many lines of symmetry does a square have?		22. Find the median of: 2, 1, 7, 11	
<b>Section B: Calculating</b>		15. Find the missing angle		23. Find area of this triangle:	
7. Calculate $12 \times 1.7$					
8.1 Find 85% of £40					

Level 5 Core Skills Practice Sheet 7

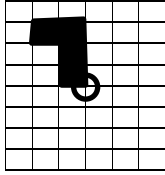
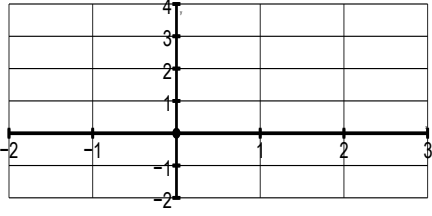
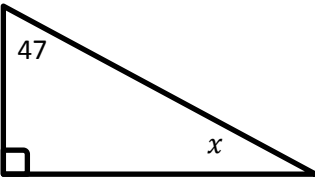
<b>Section A: Numbers</b>		<b>Section C: Algebra</b>		16. Rotate the following shape by 90° anti-clockwise 	
1. Find the missing numbers $2.7 \div 10 = ?$		12i simplify $4x + 92x - 5y$			
2. Which is the largest number: -12, -11.5 or -12.1		12ii If $a = 7$ find the value of: $4(a + 3)$		18. How many mm are there in 3.5m	
3. What is the first term in this sequence: 3, ?, 12, 24		13 Plot A=(3,-1) and B=(-1,-2)			
4.1 Find the missing denominator $\frac{4}{9} = \frac{12}{?}$				19. A rectangle has an area of 32cm and a base of 4cm. What is its perimeter?	
4.2. Write down the decimal equivalent to $\frac{7}{25}$				<b>Section E: handling data</b>	
5. Write $\frac{80}{90}$ in its simplest form		<b>Section D: Shape and Space</b>		20. What is the probability of rolling a prime number of an eight sided dice?	
6. Simplify the ratio: 15: 20		14. How many lines of symmetry does a parallelogram have?		22. Find the mean of: 2.5, 3.5, 3 and 4	
<b>Section B: Calculating</b>		15. Find the missing angle		23. (level 6) Find area of this triangle:	
7. Calculate $13 \times 1.1$					
8.1 Find 35% of £30					

Level 5 Core Skills Practice Sheet 8

<b>Section A: Numbers</b>		<b>Section C: Algebra</b>		16. Describe the transformation below	
1. Calculate $0.21 \times 10 =$		12i simplify $5x - 7y - 11x + 10y$			
2. Round 5.98 to 1 dp		12ii If $a = 3$ find the value of: $3(a + 2) + 4$			
3. Write down the next 2 terms in the sequence: 4, 5, 7, 10, 14, ...		13 Plot $C = (-2, 3)$			
4.1 Find the missing denominator $\frac{3}{11} = \frac{?}{44}$				18. Paul's cat weighs 2705g. What is this in kilograms?	
4.2. Write down the decimal equivalent to $\frac{7}{100}$				19. Find the area of a rectangle with a base of 12cm and a width of 7cm	
5. Write $\frac{15}{45}$ in its simplest form				<b>Section E: handling data</b>	
6. Kim receives 5 times as much as Carl. If Carl receives £1.30 how much does Kim receive?		<b>Section D: Shape and Space</b>		20. A bag has 3 green, 4 blue and 2 red sweets. Find the probability of getting a red sweet	
<b>Section B: Calculating</b>		14. What do the angles in a quadrilateral add up to?		22. Find the mean of the data: 5, 7, 0	
7. Calculate $13 \times 0.2$					
8.1 Find 90% of £300		15. Find the missing angle in the following triangle		23. A biased coin has the probability of getting a head equal to 0.8. How many tails would you expect if you toss the coin 30 times?	
8.2. Find $\frac{3}{5}$ of £40					
9. calculate $32 \times 23$					
10. Calculate $-27 - 14$					
11. Paul buys 3 drinks for 93p. how much would 5 drinks cost?					



Level 5 Core Skills Practice Sheet 9

<b>Section A: Numbers</b>		<b>Section C: Algebra</b>		16. Translate this shape 2 right and 3 down.	
1. Calculate $3.2 \times 100$		12i simplify $11x + 7 + 2x - 9$			
2. Round 2.417 to 1 dp		12ii If $a = 5$ find the value of: $7a - 24$			
3. Write down the next 2 terms in the sequence: 40, 20, 10,...		13 Plot $C = (3, -1)$			
4.1 Find the missing denominator $\frac{?}{10} = \frac{3}{5}$				18. A drinks bottle contains 1.25 litres. What is this in ml?	
4.2. Write down the decimal equivalent to $\frac{21}{100}$				19. Find the area of a rectangle with a base of 17cm and a width of 20mm	
5. Write $\frac{40}{60}$ in its simplest form				<b>Section E: handling data</b>	
6. If Tim receives £300 for 2 days work, how much will he get in 5 days?		<b>Section D: Shape and Space</b>		20. A bag has 3 green, 4 blue and 2 red sweets. Find the probability of getting a red or blue sweet	
<b>Section B: Calculating</b>		14. What is the order of rotational symmetry of a parallelogram?		22. Find the mean of the data: 10,10,10,2	
7. Calculate $17 \times 1.1$		15. Find the missing angle in the following triangle		23. The chance it rains is 0.4. How many wet days would you expect in 20 days?	
8.1 Find 5% of £320					
8.2. Find $\frac{3}{4}$ of £120					
9. calculate $84 \times 21$					
10. Calculate $-3 \times -11$					
11. 1 loaf of bread weighs 400g. How much would $2 \frac{1}{2}$ loaves weigh?					

