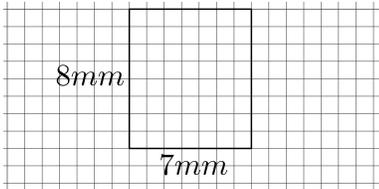
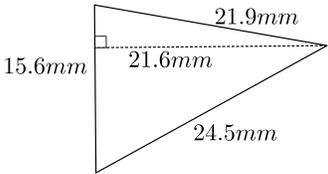
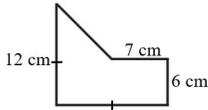
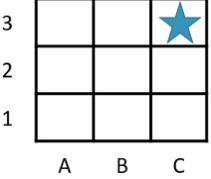
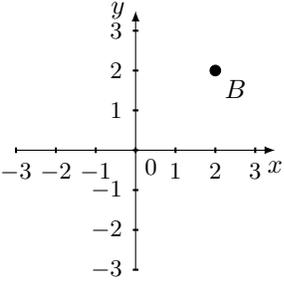
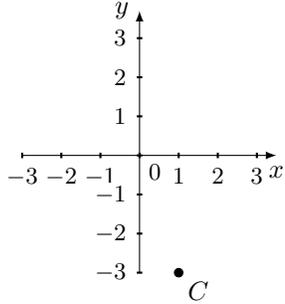


Step 1: Let's practice some skills from previous topics.

1A. $3^2 =$	1B. $2^3 =$	1C. ✎ Substitute $d = 2$ into $5d^2$ and evaluate.	
2A. List the first 6 positive multiples of 6	2BI. Fill in the box to make the equation true. $3 \times \square = 45$	2BII. List the factors of 32	2C. List the factors of 189
3A. Circle the words that describe 4. odd even square	3B. Circle the words that describe 75. even square mult. of 3	3C. Write 14 as a product of prime numbers, use powers if there are any repeated factors.	
4A. Determine the LCM of 3 and 10.	4B. Determine the HCF of 20 and 36.	4C. What is the HCF of $3 \times 5^2 \times 7^3$ and $2^3 \times 3^2 \times 5$?	
5A. Calculate $\sqrt{9}$ with the assistance of a multiplication grid.	5B. $\sqrt{81} =$	5C. Evaluate $\sqrt{2^2 \times 7^4}$	
2A. ✎ Calculate the area of the rectangle below.  $A =$	2B. ✎ To the nearest whole number, what is the area the shape below?  $A =$	2C. ✎ Express the area as a single calculation, then calculate using line by line working.  $A =$	

Step 2: Let's practice more skills from previous topics.

<p>1A. Calculate</p> <p>a. $8 + 2 =$</p> <p>b. $10 - 9 =$</p>	<p>1B. Calculate</p> <p>a. $-4 + 6 =$</p> <p>b. $-1 + 5 =$</p>	<p>1C. Calculate</p> <p>a. $6 - -3 =$</p> <p>b. $0 - -6 =$</p>
<p>2A. Calculate</p> <p>a. $0 \times 0 =$</p> <p>b. $72 \div 9 =$</p>	<p>2B.  Evaluate $18 \div (9 - 3)$</p>	<p>2C.  Evaluate $(4 + 4)^2$</p>
<p>3A.  Substitute $x = 6$ into $x + 9$ and evaluate.</p>	<p>3B.  Substitute $x = 45$ into $\frac{x}{5}$ and evaluate.</p>	<p>3C.  Substitute $x = 6$ into $\frac{x+6}{3}$ and evaluate.</p>
<p>4A.  Solve the following:</p> $x - 8 = 7$	<p>4B.  Solve the following:</p> $\frac{x}{2} = 5$	<p>4C.  Solve the following:</p> $8 = \frac{x+6}{4}$
<p>5A. State the grid reference of the star below.</p> 	<p>5B. Plot the point $A = (3, -1)$ below and state the coordinates of point B.</p>  <p>$B = (\quad , \quad)$</p>	<p>5C. The point C is reflected in the y axis. Plot C', the image of C, and state its coordinates.</p>  <p>$C' =$</p>

Step 3: Complete these worded questions of increasing difficulty. You may use a calculator at any time.

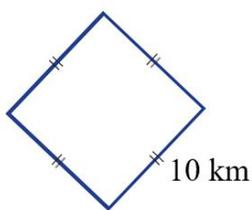
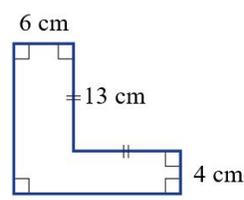
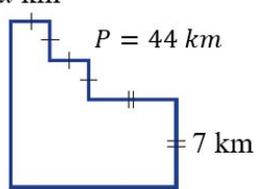
<p>1.  If \$4250 is to be shared equally among 5 people, how much will each person receive?</p>	<p>2.  When a glass is full of milk the total weight is 370g. When the glass is half full of milk the weight is 290g. What is the weight of the glass?</p>	<p>3.  What is the largest possible remainder when a two-digit number is divided by the sum of its digits?</p>
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Step 1: Let's practice some skills from previous topics.

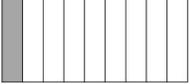
1A. What is the place value of the 2 in 5.296?	1B. Round 0.09954 to 4 decimal places (4 dp.)	1C. Insert $<$, $=$ or $>$ between the decimals. 3.72 3.073
2A. $25600 \div 10 =$	2B. $7 \times 10 =$	2C. $4.78 \div 10^4 =$
3A. $2571 + 2056$	3B. $5.38 - 0.5$	3C. Evaluate $-302 - -222$
4A. 462×9	4B. 0.6×3.6	4C. Evaluate 32×0.089

5A. a. $22 \div 11 =$ b. $120 \div 10 =$ c. $50 \div 4 =$ rem.	5B. $5776 \div 8$	5CI. $5.7 \div 0.05$	5CII. Solve $8x + 3 = 275.8$
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6A. Convert 54% to a decimal.	6B. Calculate 70% of 39	6C. Calculate 89% of 900
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<p>1A. Calculate the perimeter of the shape below.</p>  <p>$P =$</p>	<p>1B. Calculate the perimeter of the shape below.</p>  <p>$P =$</p>	<p>1C. Create and solve an equation to find the value of x.</p> <p>x km</p> 
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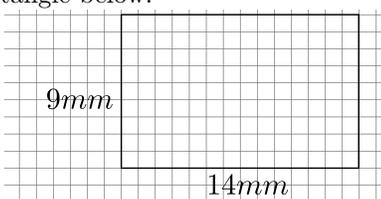
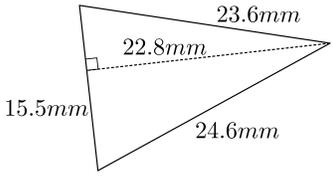
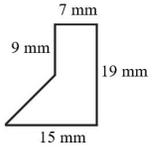
Step 2: Let's practice some more skills from previous topics.

<p>1A. What fraction is shaded?</p> 	<p>1B. Fill in the box to create an equivalent fraction</p> $\frac{2}{5} = \frac{\square}{40}$	<p>1C. Fill in the boxes to make each equation true.</p> <p>a. $4\frac{\square}{4} = \frac{17}{4}$ b. $1\frac{3}{4} = \frac{\square}{4}$</p>						
<p>2A. Simplify the following fraction:</p> $\frac{25}{30} =$	<p>2B. Simplify the following fraction:</p> $\frac{12}{60} =$	<p>2C.  Put a <, = or > between the fractions.</p> $\frac{3}{8} \quad \frac{6}{17}$						
<p>3A. Convert $\frac{6}{10}$ to a decimal.</p>	<p>3B. Complete the table below</p> <table border="1" data-bbox="587 613 1032 693"> <tr> <td>P</td> <td>F</td> <td>D</td> </tr> <tr> <td></td> <td></td> <td>0.12</td> </tr> </table>	P	F	D			0.12	<p>3C.  Express $\frac{7}{12}$ as a recurring decimal.</p>
P	F	D						
		0.12						
<p>4A. $\frac{7}{10} + \frac{2}{10}$</p>	<p>4B.  $\frac{6}{10} + \frac{3}{5}$</p>	<p>4C.  $\frac{7}{12} + (-\frac{3}{5})$</p>	<p>5A.  $\frac{1}{2} \times \frac{7}{9}$</p>	<p>5B.  $\frac{6}{7} \times \frac{2}{4}$</p>	<p>5C.  $\frac{54}{12} \times \frac{24}{72}$</p>			
<p>6A.  $\frac{1}{2} \div \frac{10}{3}$</p>	<p>6B.  $\frac{2}{11} \div \frac{9}{7}$</p>	<p>6CI.  $2\frac{3}{4} \div \frac{1}{2}$</p>	<p>6CII.  Solve $7x + 7 = 86$</p>					

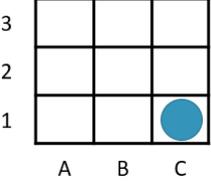
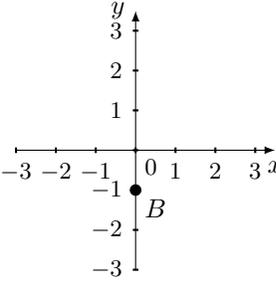
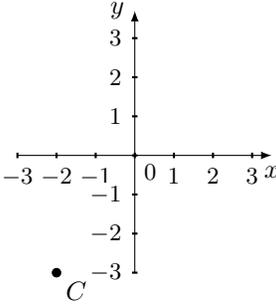
Step 3: Complete these worded questions of increasing difficulty. You may use a calculator at any time.

<p>1.  Henry has 16 rolls of wire. Each roll is 18m long. What is the total length of wire that Henry has?</p>	<p>2.  Mikayla rode her bike for 45 seconds. She rode at a speed of 5 metres per second. How far did she ride?</p> <p>A. 9m B. 50m C. 225m D. 450m</p>	<p>3.  Students in a maths test can score 0, 1, 2 or 3 marks on each of the six questions. There is only one way of scoring 18 and 6 ways of scoring 17. How many ways can a student get a score of 16?</p>
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Step 1: Let's practice some skills from previous topics.

1A. $6^2 =$	1B. $1^3 =$	1C.  Substitute $q = 2$ into $4q^5$ and evaluate.	
2A. List the first 7 positive multiples of 5	2BI. Fill in the box to make the equation true. $2 \times \square = 58$	2BII. List the factors of 49	2C. List the factors of 155
3A. Circle the words that describe 6. odd even square	3B. Circle the words that describe 3. odd square mult. of 5	3C. Write 75 as a product of prime numbers, use powers if there are any repeated factors.	
4A. Determine the LCM of 2 and 7.	4B. Determine the HCF of 84 and 30.	4C. What is the prime factorisation of the LCM of $2^5 \times 3^2 \times 7$ and $2^3 \times 5^3 \times 7^2$?	
5A. Calculate $\sqrt{100}$ with the assistance of a multiplication grid.	5B. $\sqrt{0} =$	5C. Evaluate $\sqrt{3^2 \times 7^4}$	
2A.  Calculate the area of the rectangle below.  $A =$	2B.  To the nearest whole number, what is the area the shape below?  $A =$	2C.  Express the area as a single calculation, then calculate using line by line working.  $A =$	

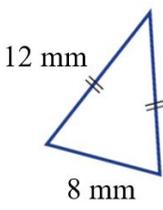
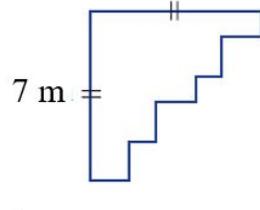
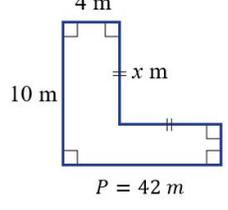
Step 2: Let's practice more skills from previous topics.

<p>1A. Calculate</p> <p>a. $0 + 5 =$</p> <p>b. $5 - 5 =$</p>	<p>1B. Calculate</p> <p>a. $-1 + 1 =$</p> <p>b. $-4 + 7 =$</p>	<p>1C. Calculate</p> <p>a. $-3 + -3 =$</p> <p>b. $-4 + -6 =$</p>
<p>2A. Calculate</p> <p>a. $1 \times 2 =$</p> <p>b. $7 \div 7 =$</p>	<p>2B.  Evaluate $10 - 4 \div 2$</p>	<p>2C.  Evaluate $(9 - 1)^2$</p>
<p>3A.  Substitute $x = 10$ into $x + 5$ and evaluate.</p>	<p>3B.  Substitute $x = 80$ into $\frac{x}{10}$ and evaluate.</p>	<p>3C.  Substitute $x = 4$ into $3x + 6$ and evaluate.</p>
<p>4A.  Solve the following:</p> $x - 8 = 7$	<p>4B.  Solve the following:</p> $2x = 14$	<p>4C.  Solve the following:</p> $7 = \frac{x+39}{7}$
<p>5A. State the grid reference of the circle below.</p> 	<p>5B. Plot the point $A = (3, -2)$ below and state the coordinates of point B.</p>  <p>$B = (\quad , \quad)$</p>	<p>5C. The point C is reflected in the x axis. Plot C', the image of C, and state its coordinates.</p>  <p>$C' =$</p>

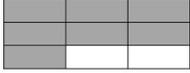
Step 3: Complete these worded questions of increasing difficulty. You may use a calculator at any time.

<p>1.  A brick wall has 43 rows of 688 bricks. How many bricks are in the wall?</p>	<p>2.  Deli ham costs \$18 per kilo. What is the best estimate for how much 400g would cost?</p> <p>A. \$4</p> <p>B. \$7</p> <p>C. \$18</p> <p>D. \$72</p>	<p>3.   There are 15 pigs in a sty with a stock of food that would last 20 days. How long would this food stock last if there were only 12 pigs?</p>
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Step 1: Let's practice some skills from previous topics.

1A. What is the place value of the 3 in 2.963?	1B. Round 9.4792 to 3 decimal places (3 dp.)	1C. Insert $<$, $=$ or $>$ between the decimals. 0.86 1.3	
2A. $9500 \times 10 =$	2B. $0.5 \times 10 =$	2C. $74.72 \times 10^2 =$	
3A. $3626 - 2039$	3B. $4.67 + 4.5$	3C. Evaluate $-106 + -277$	
4A. 838×3	4B. 0.06×0.69	4C. Evaluate 0.365×0.24	
5A. a. $4 \div 2 =$ b. $110 \div 10 =$ c. $79 \div 8 =$ rem.	5B. $8469 \div 9$	5CI. $4.6 \div 0.5$	5CII. Solve $\frac{x}{4} + 7 = 25.175$
6A. Convert 24% to a decimal.	6B. Calculate 7% of 42	6C. Calculate 48.8% of 0.03	
1A. Calculate the perimeter of the shape below.  $P =$	1B. Calculate the perimeter of the shape below.  $P =$	1C. Create and solve an equation to find the value of x .  $P = 42 m$	

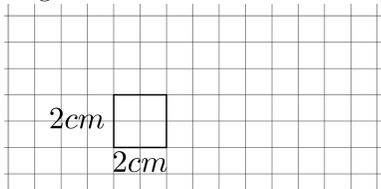
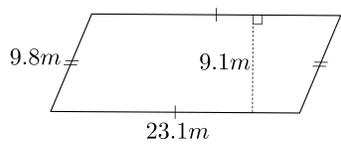
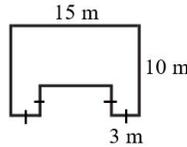
Step 2: Let's practice some more skills from previous topics.

1A. What fraction is shaded? 		1B. Fill in the box to create an equivalent fraction $\frac{4}{9} = \frac{\square}{81}$		1C. Fill in the boxes to make each equation true. a. $7 = \frac{\square}{2}$ b. $5\frac{1}{2} = \frac{\square}{2}$							
2A. Simplify the following fraction: $\frac{15}{20} =$		2B. Simplify the following fraction: $\frac{15}{30} =$		2C.  Put a <, = or > between the fractions. $\frac{8}{24} \quad \frac{17}{51}$							
3A. Convert $\frac{6}{10}$ to a decimal.		3B. Complete the table below <table border="1" data-bbox="589 613 1032 690"> <tr> <td>P</td> <td>F</td> <td>D</td> </tr> <tr> <td>88%</td> <td></td> <td></td> </tr> </table>		P	F	D	88%			3C.  Express $\frac{2}{11}$ as a recurring decimal.	
P	F	D									
88%											
4A. $\frac{8}{10} + \frac{1}{10}$	4B.  $\frac{20}{27} + \frac{5}{9}$	4C.  $-\frac{1}{2} - (-\frac{7}{10})$	5A.  $\frac{1}{5} \times \frac{7}{9}$	5B.  $\frac{1}{5} \times \frac{2}{5}$	5C.  $\frac{20}{40} \times \frac{5}{20}$						
6A.  $\frac{1}{2} \div \frac{9}{7}$		6B.  $\frac{3}{5} \div \frac{10}{10}$		6C.  $3\frac{3}{4} \div \frac{2}{3}$		6CII.  Solve $6x - 3 = 55$					

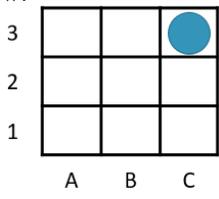
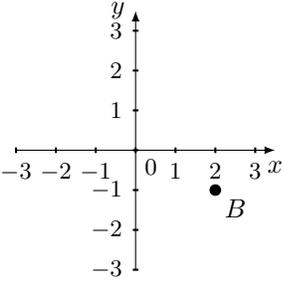
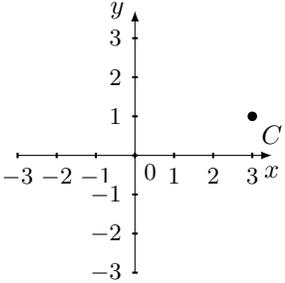
Step 3: Complete these worded questions of increasing difficulty. You may use a calculator at any time.

1.  A BBQ was held for 24 people. There were 2 sausages for each person. How many sausages were there altogether?	2.  Tom is building a brick wall. The length of a row of 18 bricks is 4.5 metres. How long a row can Tom build with 30 bricks?	3.  The numbers from 1 to 30 inclusive are written out. Numbers are then crossed out so that in the remaining list, no number is the double of any other. What is the maximum number of integers which can appear on the remaining list?
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Step 1: Let's practice some skills from previous topics.

1A. $5^2 =$	1B. $3^3 =$	1C. ✎ Substitute $k = 2$ into $(5k)^3$ and evaluate.	
2A. List the first 5 positive multiples of 7	2BI. Fill in the box to make the equation true. $3 \times \square = 87$	2BII. List the factors of 43	2C. List the factors of 131
3A. Circle the words that describe 16. odd even square	3B. Circle the words that describe 68. odd prime mult. of 2	3C. Write 65 as a product of prime numbers, use powers if there are any repeated factors.	
4A. Determine the LCM of 7 and 8.	4B. Determine the HCF of 70 and 40.	4C. What is the HCF of $2^5 \times 3^2 \times 7$ and $2^3 \times 5^3 \times 7^2$?	
5A. Calculate $\sqrt{36}$ with the assistance of a multiplication grid.	5B. $\sqrt{1} =$	5C. Evaluate $\sqrt{2^2 \times 3^4 \times 7^2}$	
2A. ✎ Calculate the area of the rectangle below.  A =	2B. ✎ To the nearest whole number, what is the area the shape below?  A =	2C. ✎ Express the area as a single calculation, then calculate using line by line working.  A =	

Step 2: Let's practice more skills from previous topics.

<p>1A. Calculate</p> <p>a. $4 + 4 =$</p> <p>b. $9 - 9 =$</p>	<p>1B. Calculate</p> <p>a. $-3 - 4 =$</p> <p>b. $1 - 4 =$</p>	<p>1C. Calculate</p> <p>a. $6 - -2 =$</p> <p>b. $2 - -2 =$</p>
<p>2A. Calculate</p> <p>a. $3 \times 2 =$</p> <p>b. $24 \div 6 =$</p>	<p>2B.  Evaluate $24 \div (4 + 4)$</p>	<p>2C.  Evaluate $(6 - 2)!$</p>
<p>3A.  Substitute $x = 4$ into $x + 10$ and evaluate.</p>	<p>3B.  Substitute $x = 4$ into $4x$ and evaluate.</p>	<p>3C.  Substitute $x = 27$ into $\frac{x}{9} + 5$ and evaluate.</p>
<p>4A.  Solve the following:</p> $x + 7 = 8$	<p>4B.  Solve the following:</p> $\frac{x}{6} = 8$	<p>4C.  Solve the following:</p> $\frac{x+3}{3} = 8$
<p>5A. State the grid reference of the circle below.</p> 	<p>5B. Plot the point $A = (1, 2)$ below and state the coordinates of point B.</p>  <p>$B = (\quad , \quad)$</p>	<p>5C. The point C is reflected in the y axis. Plot C', the image of C, and state its coordinates.</p>  <p>$C' =$</p>

Step 3: Complete these worded questions of increasing difficulty. You may use a calculator at any time.

<p>1.  A computer macro runs for 200 seconds. How many seconds will it take to run 7 versions of the macro in succession?</p>	<p>2.  Sam is paid the same amount for each house he cleans. He gets paid \$180 for cleaning 3 houses. How much does Sam get paid to clean 7 houses?</p>	<p>3.  All but one of the numbers from 110 to 120 inclusive can be fitted into a single sequence 119, 112, 116, 118, 114, 117, 111, 120, 115, 110, in which each successive pair has a highest common factor greater than one. If you make the longest possible sequence of this kind using the numbers from 31 to 39 inclusive, how many numbers will be left out?</p>
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Step 1: Let's practice some skills from previous topics.

1A. What is the place value of the 9 in 1.8529?

1B. Round 0.038 to 2 decimal places (2 dp.)

1C. Insert $<$, $=$ or $>$ between the decimals.

0.03 0.3

2A. $300 \times 10 =$

2B. $0.99 \times 10 =$

2C. $951 \div 10^2 =$

3A. $3454 - 2085$

3B. $0.9 + 4.78$

3C. Evaluate $140 - -176$

4A. 336×7

4B. 0.3×5.78

4C. Evaluate 46×0.78

5A. a. $55 \div 11 =$

5B. $8384 \div 4$

5CI. $4.6 \div 0.02$

5CII. Solve

$$\frac{x-3}{10} = -0.195$$

b. $20 \div 10 =$

c.

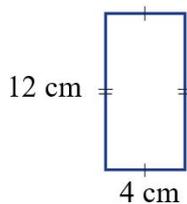
$133 \div 11 =$ rem.

6A. Convert 1% to a decimal.

6B. Calculate 40% of 41

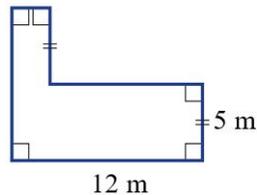
6C. Calculate 7.2% of 460

1A. Calculate the perimeter of the shape below.



$P =$

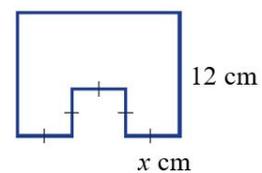
1B. Calculate the perimeter of the shape below.



$P =$

1C. Create and solve an equation to find the value of x .

$$P = 64 \text{ cm}$$



Step 2: Let's practice some more skills from previous topics.

1A. What fraction is shaded? 		1B. Fill in the box to create an equivalent fraction $\frac{5}{6} = \frac{\square}{36}$		1C. Fill in the boxes to make each equation true. a. $4 = \frac{\square}{7}$ b. $6\frac{\square}{7} = \frac{43}{7}$							
2A. Simplify the following fraction: $\frac{2}{4} =$		2B. Simplify the following fraction: $\frac{12}{24} =$		2C.  Put a <, = or > between the fractions. $\frac{12}{30} \quad \frac{9}{20}$							
3A. Convert $\frac{1}{100}$ to a decimal.		3B. Complete the table below <table border="1" data-bbox="589 611 1032 690" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>P</th> <th>F</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>58%</td> <td></td> <td></td> </tr> </tbody> </table>		P	F	D	58%			3C.  Express $\frac{3}{11}$ as a recurring decimal.	
P	F	D									
58%											
4A. $\frac{6}{9} + \frac{2}{9}$	4B.  $\frac{3}{4} - \frac{5}{16}$	4C.  $-\frac{3}{5} - \frac{1}{12}$	5A.  $\frac{3}{5} \times \frac{4}{7}$	5B.  $\frac{1}{7} \times \frac{7}{8}$	5C.  $\frac{21}{14} \times \frac{36}{24}$						
6A.  $\frac{1}{3} \div \frac{10}{7}$		6B.  $\frac{5}{7} \div \frac{11}{7}$		6C.  $3\frac{1}{5} \times 5$		6CII.  Solve $2x + 8 = 11$					

Step 3: Complete these worded questions of increasing difficulty. You may use a calculator at any time.

1.  There are three boxes of tennis balls, each box contains 68 balls. How many tennis balls are there in total?	2.  Deli ham costs \$18 per kilo. What is the best estimate for how much ham you can get for \$5? A. 0.1kg B. 0.3kg C. 3.5kg D. 4kg	3.  What is the largest possible sum obtainable if each of the four numbers 1, 9, 8 and 3 are substituted for one of each of the four letters in the addition problem below? $BAD + MAD + DAM$
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Step 1: Let's practice some skills from previous topics.

1A. $10^2 =$

1B. $3^4 =$

1C.  Substitute $g = 2$ into $10g^2$ and evaluate.

2A. List the first 5 positive multiples of 9

2BI. Fill in the box to make the equation true.

$$3 \times \square = 48$$

2BII. List the factors of 47

2C. List the factors of 121

3A. Circle the words that describe 7.

odd even square

3B. Circle the words that describe 50.

even square mult. of 2

3C. Write 95 as a product of prime numbers, use powers if there are any repeated factors.

4A. Determine the LCM of 5 and 15.

4B. Determine the HCF of 60 and 84.

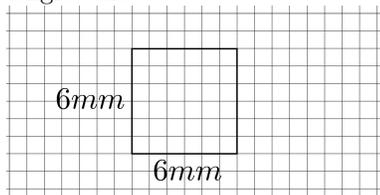
4C. What is the prime factorisation of the LCM of $2 \times 3^3 \times 7^4$ and $2 \times 3^2 \times 7$?

5A. Calculate $\sqrt{16}$ with the assistance of a multiplication grid.

5B. $\sqrt{64} =$

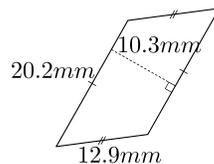
5C. Evaluate $\sqrt{2^6 \times 3^2 \times 7^2}$

2A.  Calculate the area of the rectangle below.



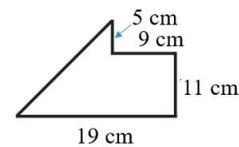
A =

2B.  To the nearest whole number, what is the area the shape below?



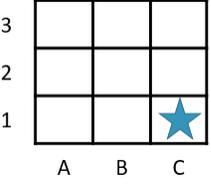
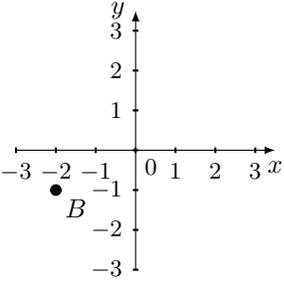
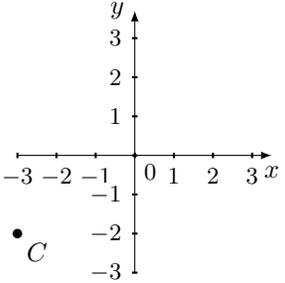
A =

2C.  Express the area as a single calculation, then calculate using line by line working.



A =

Step 2: Let's practice more skills from previous topics.

<p>1A. Calculate</p> <p>a. $6 + 2 =$</p> <p>b. $6 - 4 =$</p>	<p>1B. Calculate</p> <p>a. $-6 + 10 =$</p> <p>b. $-5 - 1 =$</p>	<p>1C. Calculate</p> <p>a. $-4 + -2 =$</p> <p>b. $1 - -4 =$</p>
<p>2A. Calculate</p> <p>a. $8 \times 7 =$</p> <p>b. $22 \div 2 =$</p>	<p>2B.  Evaluate $(4 + 4) \times 3$</p>	<p>2C.  Evaluate $10 - 2!$</p>
<p>3A.  Substitute $x = 16$ into $x - 9$ and evaluate.</p>	<p>3B.  Substitute $x = 8$ into $4x$ and evaluate.</p>	<p>3C.  Substitute $x = 21$ into $\frac{x}{7} + 6$ and evaluate.</p>
<p>4A.  Solve the following:</p> $x + 2 = 9$	<p>4B.  Solve the following:</p> $2x = 8$	<p>4C.  Solve the following:</p> $59 = 8x + 3$
<p>5A. State the grid reference of the star below.</p> 	<p>5B. Plot the point $A = (-2, 3)$ below and state the coordinates of point B.</p>  <p>$B = (\quad , \quad)$</p>	<p>5C. The point C is reflected in the x axis. Plot C', the image of C, and state its coordinates.</p>  <p>$C' =$</p>

Step 3: Complete these worded questions of increasing difficulty. You may use a calculator at any time.

<p>1.  There are 8 children in the classroom and each student is to be given 6 pencils by the teacher. How many pencils will the teacher have to give out?</p>	<p>2.  A flea can jump up to 200 times its body length. The body length of the flea is 2.7mm. What is the furthest distance the flea can jump?</p> <p>A. 5.4mm B. 54mm C. 540mm D. 5400mm</p>	<p>3.  The four digits 1, 9, 8 and 6 are each used to form two numbers, each of which is one, two or three digits. What is the largest possible product two such numbers can have?</p>
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