

Forming equations

- 1) $\frac{1}{2}$ of 54
- 2) $\frac{1}{8}$ of 72
- 3) $\frac{2}{3}$ of 33
- 4) $\frac{3}{4}$ of 20
5. Find 25% of 1070.
6. Find 78% of 30.
7. Find 76.5% of 1630.
8. Robbie's rail card rises from £25 by 4%.
What is the new cost?
9. Harry's garden is $\frac{3}{8}$ lawn, $\frac{5}{12}$ vegetables and the rest flowers.
What fraction of the garden is flowers?
10. $\frac{6}{10}$ of a class are boys. $\frac{2}{5}$ of the boys can swim.
What fraction cannot swim?

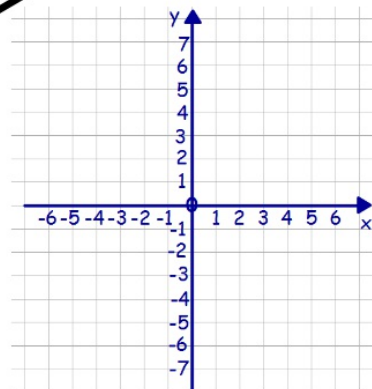
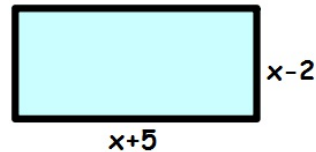
Percentages/fractions of an amount

Co-ordinates

- (a) Plot the points A(2,2), B(6,2) and C(6,4).
- (b) Add another point to complete the rectangle
- (c) Plot the reflection of this shape in the x-axis.
- (d) Plot the reflection of this shape in the y-axis.

Block test 2 revision

1. I think of a number. I add 5 My answer is 8. Form an equation and solve it to find my number.
2. Alexander has 45 pence. Mya has 30 pence. Heather has $t + 1$ pence. Write an expression for the total value of money they have.
3. The perimeter of the rectangle below is 42cm.
Calculate the lengths of the sides by forming an equation and solving it.



Algebra

Bracket practice

- (1) $2(d + 4)$
- (2) $10(c + 3)$
- (3) $12(e - 2)$
- (4) $5(x - 9)$
- (5) $6(x + 2) + 2x$
- (6) $5(x - 4) - 3x + 1$
- (7) $9(3a + 2) + 2a - 12$
- (8) $6(2b - 3) - 12b$
- (9) $7(y + 4) + 2y$
- (10) $8(2w + 3) - 5w - 3$

Equations

- (1) $2x + 2 = 8$
- (2) $2x + 3 = 13$
- (3) $3x + 4 = 10$
- (4) $4 - 5x = 19$
- (5) $-1 - 2x = 9$
- (6) $4(y + 2) = 24$
- (7) $3(a - 1) = 9$
- (8) $5x + 7 = 4x + 12$
- (9) $3x + 5 = x + 13$
- (10) $6x - 1 = 4x + 7$

1. $\frac{1}{2} - \frac{2}{5}$

2. $\frac{3}{5} \times \frac{2}{3}$

3. $3\frac{1}{4} \times 1\frac{1}{5}$

4. $\frac{9}{10} - \frac{2}{3}$

5. $\frac{3}{5} \times \frac{7}{6}$

6. $1\frac{2}{3} \times 1\frac{4}{5}$

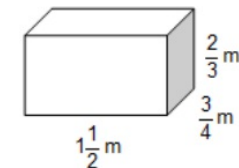
7. $\frac{1}{2} + \frac{4}{9}$

8. $\frac{2}{5} + \frac{3}{8}$

9. $4\frac{7}{8} \div 1\frac{6}{7}$

10. I cut off 4 pieces of string, each $3\frac{1}{3}$ cm long, from a strip 15 cm long.
What length remained?

11. Calculate the volume this tank
(in cubic metres)



Fractions

Topics	Extra Revision pages
<p>Fractions</p> <ul style="list-style-type: none"> • Equivalent fractions/ simplifying (inc top heavy) • Adding/ subtracting fractions (consolidation) • Multiplying Fractions • Dividing fractions 	<p>3a - Ex 1 / Ex 2 P78 - 81 3a - Ex 4 / Ex 5 P82 - 86 3b - Ex 1 P75 - 76 3b - Ex 2 P77 - 79</p>
<p>Co-ordinates</p> <ul style="list-style-type: none"> • Revise the coordinate grid • Reflecting • Sets of Points (lines of the form $x = a$ and $y = b$) 	<p>3a - P41 Ex 1 Board/Classwork</p>
<p>Percentages</p> <ul style="list-style-type: none"> • Percentages without a calculator • Mental calculations • Percentages with a calculator 	<p>3a - Pg 46 + 47, Ex 1 Boardwork 3a - Pg 48 + 49, Ex 2</p>
<p>Integers (2)</p> <ul style="list-style-type: none"> • Multiplying and Dividing Integers 	<p>3a - Pg 37, Ex 4</p>
<p>Algebra</p> <ul style="list-style-type: none"> • Solving simple equations of the form $ax = b$, $x + a = b$, $ax + b = c$. • Letters and numbers on both sides of the form: $x \pm a = x \pm b$, $ax \pm b = cx \pm d$ • Harder examples of the form: $ax \pm b = cx$, $a - bx = c$, $a \pm bx = c \pm dx$ • Forming expressions and solving. • Include Perimeters of 2D shapes. 	<p>3b - Page 48 Ex 1 3b - Pg 50 Ex 2 3b - Pg 50 Ex 2 3b - Pg 50 Ex 2, Q 4 + 5</p>