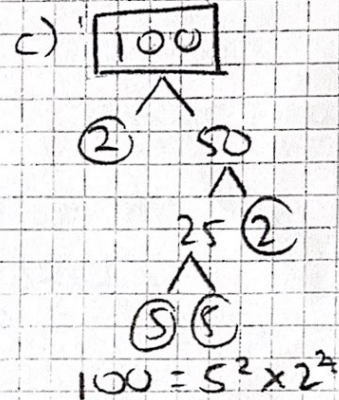
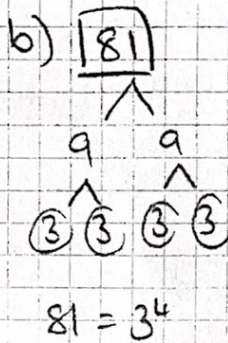
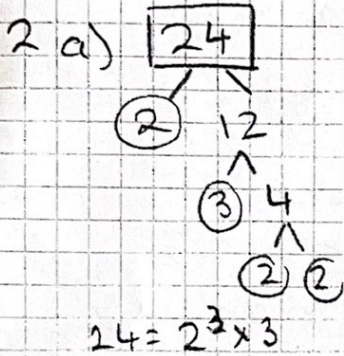


# S2 November Assessment Revision.

## Previous Revision

1 a) 2635      b) 0.009      c) 5220      d) 0.78



3 a)  $15e - 7r - 2$

b)  $-10y - 5p + 11$

c)  $r^2 - 12r + 8$

d)  $23w^3 - 20w^2 - 4w$

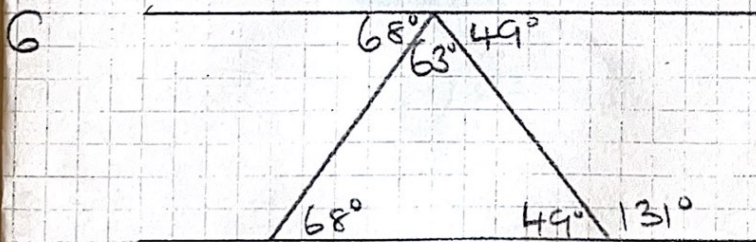
4. 1 share = 13000

7 : 4 : 2

£91000 : £52000 : £26000

5 a)  $2e(3 - 4e^2)$

b)  $4s(3r - 5s^2)$



7 a) -20

b)  $5 \times 7^2 - (-4)$   
 $5 \times 49 + 4$   
249

c)  $5 \times 7 - (-4)^2$   
 $35 - 16$   
19

d)  $(5 - (-4))^2 + 5 \times 7$   
 $9^2 + 35$   
 $81 + 35$   
116

8 a)  $4(b-3)$                       c)  $8(u-8)$   
 b)  $5(g+7)$                       d)  $6(j-7)$

9. a) £177      b) £66      c) £210      d) £697

10 a) 1200m      b) 813cm      c) 300000cm

11 a) £26097: £17398

b) £17842: £62447

12 a)  $35y - 25 + 2y = 37y - 25$

b)  $24w + 40 - 32w + 12 = -8w + 52$

c)  $e^2 - 2e + 7e = e^2 + 5e$

d)  $12j^2 - 30j - 12j^2 + 27j = -3j$

13. a) -17

b) 84

c) 1

d) -90

14 Fractions

1 a)  $\frac{23}{20}$       b)  $\frac{7}{2}$       c)  $\frac{20}{9}$

2 a)  $\frac{16}{21}$       b)  $\frac{43}{45}$       c)  $\frac{24}{35}$

3.  $P = \frac{61}{7}$  units

$A = 3$  units<sup>2</sup>

4 a)  $\frac{17}{20}$       b)  $\frac{22}{15}$       c)  $\frac{4}{3}$       d)  $\frac{5}{2}$       e)  $\frac{81}{28}$       f)  $\frac{33}{16}$

5. a) Area =  $\frac{30}{169}$  units<sup>2</sup>      b) Perimeter =  $\frac{30}{12}$  or  $2\frac{4}{3}$  units

## Equations

1 a)  $e = 4$

b)  $r = \frac{25}{6}$

c)  $h = \frac{13}{3}$

d)  $k = \frac{3}{14}$

2 a)  $i = 15$

b)  $p = 4$

c)  $p = 7$

d)  $u = 1$

3 a)  $h = \frac{29}{4}$

b)  $j = \frac{3}{4}$

c)  $e = \frac{15}{2}$

d)  $f = \frac{64}{7}$

4 a)  $r = \frac{26}{5}$

b)  $g = -13$

c)  $h = 2$

d)  $j = -7$

5 a)  $h = \frac{29}{4}$

b)  $j = \frac{3}{4}$

c)  $e = \frac{15}{2}$

d)  $f = \frac{64}{7}$

(same as Q3)

6 a)  $A = L \times b$   
 $= 2h(8h + 3)$   
 $= 16h^2 + 6h$

b)  $P = 8h + 3 + 8h + 3 + 2h + 2h$   
 $= 20h + 6$

c)  $20h + 6 = 100$

$20h = 94$

$h = \frac{47}{10} = \underline{\underline{4.7m}}$

7.  $x + 2x = 51$

$3x = 51$

$x = 17$

$\therefore \text{Paul} = 2 \times 17$

$= 34 \text{ years old}$

8.  $x + x + 4 + x + 7 + x + 30 + x + 30 = 96$

$5x + 71 = 96$

$5x = 25$

$x = 5$

$\therefore$  youngest child = 5 years old

## Statistics :

1. 
$$\begin{array}{l|l} 5 & 69 \\ 6 & 044466888888899 \\ 7 & 01245789 \\ 8 & 5 \end{array}$$

$n = 26$        $5|6 = 56$  kg      b. Median = 68

2. 
$$\begin{array}{l|l} 0 & 5888 \\ 1 & 12456 \\ 2 & 0189 \\ 3 & 4 \end{array}$$

$n = 14$        $0|5 = 5$  years old

b(i) Range =  $34 - 5 = 29$     (ii) Mode = 8    (iii) Median = 14.5

3. 

Swimming	$\frac{12}{60}$ of $360^\circ = 72^\circ$
Football	$\frac{8}{60}$ of $360^\circ = 30^\circ$
Athletics	$\frac{20}{60}$ of $360^\circ = 120^\circ$
Tennis	$\frac{3}{60}$ of $360^\circ = 18^\circ$
Track Cycling	$\frac{15}{60}$ of $360^\circ = 90^\circ$
Hockey	$\frac{5}{60}$ of $360^\circ = 30^\circ$