



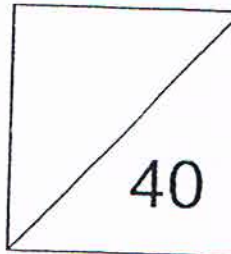
Rosyth School
Second Semestral Assessment 2011
Standard Mathematics
Primary 5

Name: _____

Class: Pr 5-_____ Register No. _____

Duration: 50 minutes

Date: 31st October 2011 Parent's Signature: _____



PAPER 1 (BOOKLETS A & B)

Instructions to Pupils:

1. Follow all instructions carefully.
2. Answer all questions.
3. Write your answers in this booklet.
4. You are **not** allowed to use a calculator.

Booklet	Total Marks	Marks
A	20 marks	
B	20 marks	
Paper 1 Total		

* This paper consists of 7 pages altogether.
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Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

(20 marks)

-
- 1 The value of the digit 8 in 7 800 241 is _____.
- (1) 800
 - (2) 8000
 - (3) 80 000
 - (4) 800 000
- 2 7.05 kg is the same as _____.
- (1) 705 g
 - (2) 750 g
 - (3) 7 050 g
 - (4) 7 500 g
- 3 In a class of 40 pupils, 19 are girls. What is the ratio of the number of boys to the number of girls in the class?
- (1) 19 : 21
 - (2) 21 : 19
 - (3) 19 : 40
 - (4) 21 : 40

- 4 5 children shared $\frac{7}{8}$ of a pie equally. Which one of the following statements represents the above?

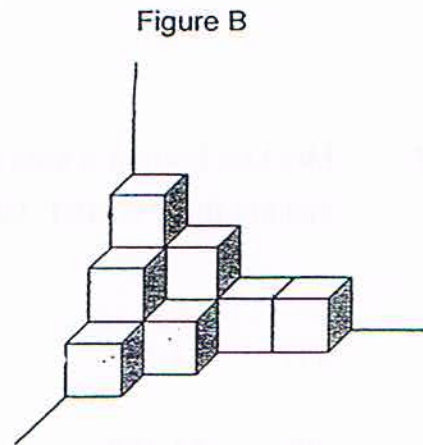
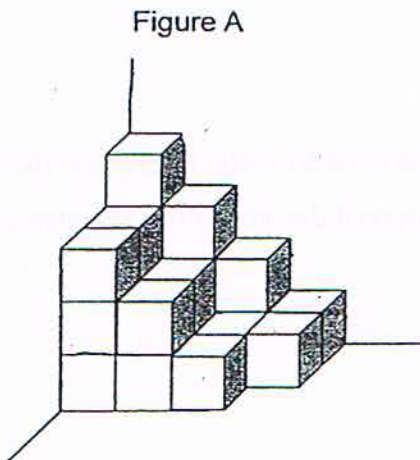
(1) $5 \times \frac{7}{8}$

(2) $\frac{1}{5} \times \frac{7}{8}$

(3) $5 \div \frac{7}{8}$

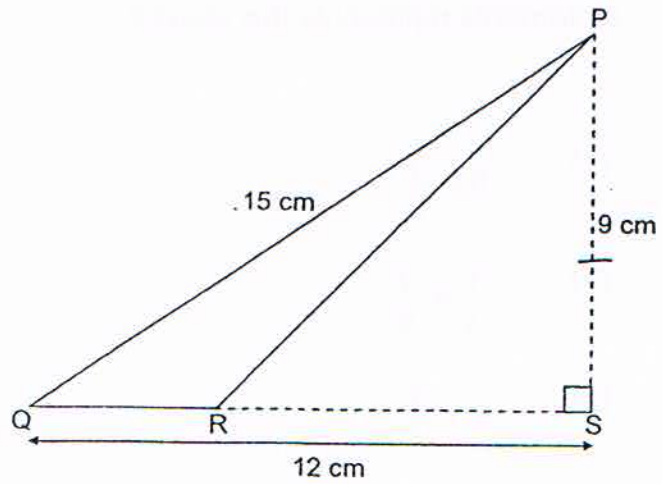
(4) $\frac{1}{5} \div \frac{7}{8}$

- 5 How many cubes have to be removed from Figure A to form Figure B?



- (1) 7
(2) 9
(3) 12
(4) 16

- 6 In the figure below, $PS = RS$. Find the area of triangle PQR.



- (1) 13.5 cm^2
- (2) 19.5 cm^2
- (3) 54 cm^2
- (4) 78 cm^2
- 7 Mrs Lee bought a sofa set for the price of \$1 600. This price does not include the 7% GST. What is the price of the sofa set inclusive of GST?

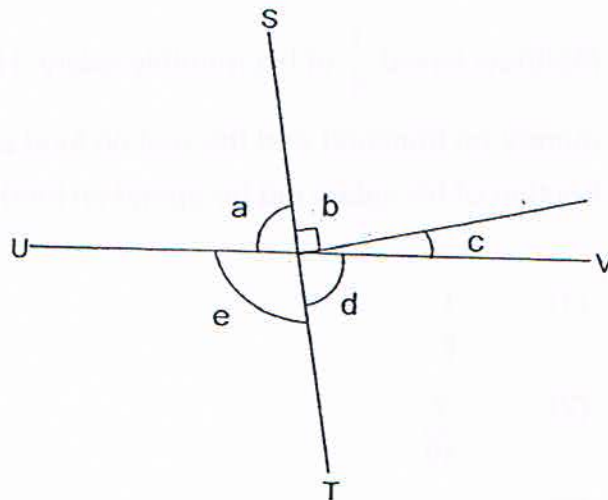
- (1) \$1 120
- (2) \$1 488
- (3) \$1 712
- (4) \$11 200

- 8 The table shows the number of bookmarks sold by 3 boys during a fair. How many more bookmarks must be sold so that an average of 35 bookmarks is sold by each boy?

Name	Number of bookmarks sold
Alim	32
Ben	21
Chad	28

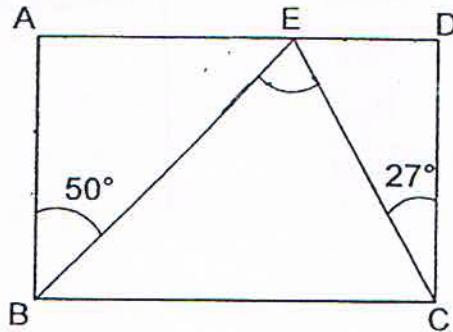
- (1) 24
 (2) 27
 (3) 46
 (4) 81

- 9 In the figure, ST and UV are straight lines. Which one of the following statements is not true of the figure?



- (1) $\angle a = \angle d$
 (2) $\angle b = \angle e - \angle c$
 (3) $\angle c = 180^\circ - \angle d - \angle e$
 (4) $\angle d = 90^\circ - \angle c$

- 10 In the figure below, ABCD is a rectangle.
If $\angle ABE = 50^\circ$ and $\angle ECD = 27^\circ$, find $\angle BEC$.



- (1) 23°
(2) 40°
(3) 63°
(4) 77°
- 11 Matthew saved $\frac{1}{5}$ of his monthly salary. He spent $\frac{3}{8}$ of the remaining money on transport and the rest on food and other expenses. What fraction of his salary did he spend on food and other expenses?

- (1) $\frac{1}{8}$
(2) $\frac{7}{40}$
(3) $\frac{17}{40}$
(4) $\frac{1}{2}$

12 There were 540 participants in a workshop. $\frac{1}{2}$ of the number of male participants at the workshop is equal to $\frac{2}{5}$ of the number of female participants. How many male participants attended the workshop?

(1) 216

(2) 240

(3) 270

(4) 300

13 Box A and Box B contained a total of 360 marbles. After 27 marbles were transferred from Box A to Box B, there was an equal number of marbles left in both boxes. How many marbles were in Box A at first?

(1) 143

(2) 180

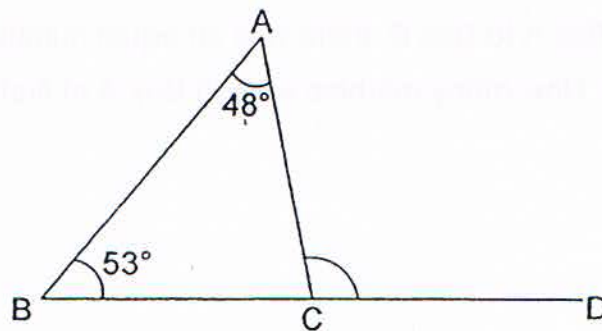
(3) 207

(4) 323

- 14 Mr Ramesh gave the same amount of money to each of his five sons. One of his sons spent \$49.90 and had \$23.60 left. How much did Mr Ramesh give his sons in total?

- (1) \$14.70
- (2) \$73.50
- (3) \$273.10
- (4) \$367.50

- 15 In the figure below, not drawn to scale, BCD is a straight line. Find $\angle ACD$



- (1) 79°
- (2) 101°
- (3) 127°
- (4) 132°

(Go on to Booklet B)

Rosyth School
Second Semestral Assessment 2011
Primary 5 Standard Mathematics

Name: _____ Register No. _____

Class: Pr 5 - _____

Date: 31st October 2011 Parent's Signature: _____

Total Time for Booklets A and B : 50 min

PAPER 1
(Booklet B)

Instructions to Pupils:

1. Do not open this booklet until you are told to do so.
2. Follow all instructions carefully.
3. You are **not** allowed to use a calculator
4. Answer all questions.

Section	Maximum Mark	Marks Obtained
Paper 1 (Booklet B)	20	

* This booklet consists of 5 pages.

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Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(20 marks)

16. A number when rounded off to the nearest hundred is 42 800. What is the smallest possible number?

Answer: _____

17. Find the value of $54 - 36 \div (2 + 7)$.

Answer: _____

18. Find the value of $\frac{3}{8} \times \frac{2}{9}$.
Leave your answer in its simplest form.

Answer: _____

19. Sofia bought 3 notebooks at \$1.45 each. How much change would she get if she paid with a \$10 note?

Answer: \$ _____

Do not write
in this space

20. There are 39 cookies in a box. 27 of them are chocolate cookies and the rest are hazelnut cookies. Find the ratio of the number of hazelnut cookies to the total number of cookies. Leave your answer in the simplest form.

Answer: _____

21. The table shows the number of goals scored by 6 teams in a football match. What is the average number of goals scored?

Team	Number of goals scored
A	2
B	3
C	0
D	5
E	0
F	2

Answer: _____

22. The perimeter of a triangle is 60 cm. Its sides are in the ratio of 3 : 8 : 9. What is the length of the longest side?

Answer: _____ cm

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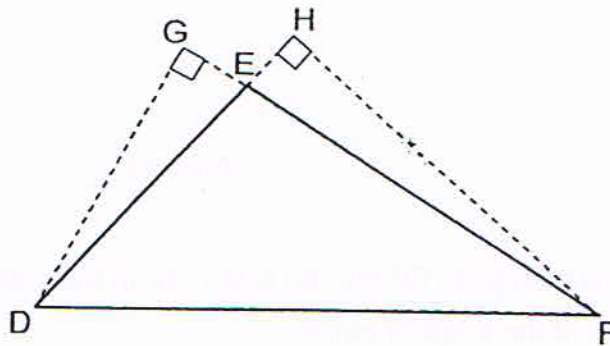
23. A rectangular container measures 31 cm long, 15 cm wide and 20 cm high is filled with water to a depth of 6 cm. Find the volume of water in the container. Give your answer in litres and millilitres.

Answer: _____

24. A solid is made up of some 2-cm cubes. The volume of the solid is 112 cm^3 . How many cubes are used to make the solid?

Answer: _____

25. Name the base that corresponds to the height HF.



Answer: _____

Questions 26 to 30 carry 2 marks each. Show your workings clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

26. Grapes are sold at 60 cents per 100 g. What is the price of 2.7 kg of grapes?

Answer: \$ _____

27. Trina shared some sweets among her friends. She gave $\frac{1}{5}$ of the sweets to Tim, $\frac{2}{7}$ to Vicky and kept the remaining 36 sweets for herself. How many sweets did Trina have at first?

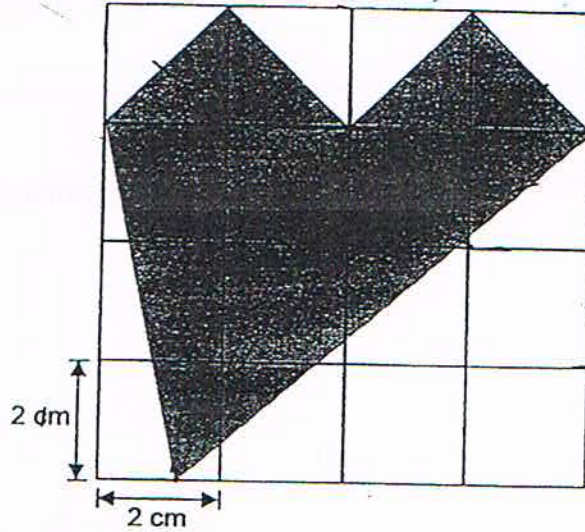
Answer: _____

28. The ratio of the number of blouses to T-shirts in a store was 1 : 3. After 52 T-shirts were sold, the ratio became 3 : 5. How many more T-shirts than blouses were left in the store?

Answer: _____

Do not v
in this s

29. Find the area of the shaded figure.



Answer: _____ cm^2

30. During the Singapore Sale, Lily bought a bag and a skirt from Fashion Point at a discount of 20%. The receipt for the two items is shown in the diagram below. However, part of it was blotted by ink. What was the total amount she paid for the two items inclusive of GST?

Fashion Point	
20% discount on all items!	
29 June 2011	
Bag	¥ 185.00
Skirt	¥ 50.00
Discount 20%	
GST 10%	
Total	

Answer: \$ _____

--End of paper--

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Rosyth School
Second Semestral Assessment 2011
Mathematics
Primary 5

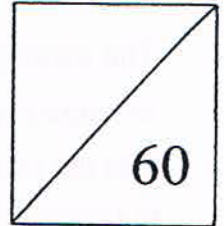
Name: _____

Class: Pr 5-_____ Register No. _____

Duration: 1h 40 minutes

Date: 31 Oct 2011

Parent's Signature: _____



PAPER 2

Instructions to Pupils:

1. Follow all instructions carefully.
2. Answer all questions.
3. Write your answers in this booklet.
4. **Show your working clearly** as marks are awarded for correct working.
5. You are allowed to use a calculator.

Questions	Total Marks	Marks
Q 1 to 5	10 marks	
Q 6 to 18	50 marks	
Paper 2 Total		

*This paper consists of **15** pages altogether.

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Questions 1 to 5 carry 2 marks each. **Show your working clearly** in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

- 1) The average number of flowers sold per month from January to May was 30 496. The average number of flowers sold per month from June to December was 32 580. What was the increase in the total number of flowers sold between January to May and June to December?

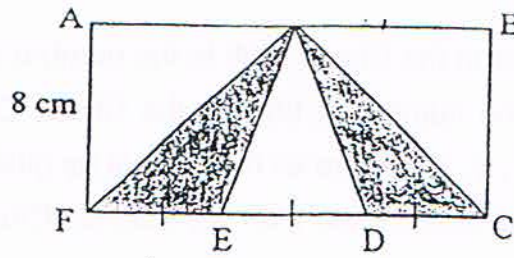
Ans: _____

- 2) Flags are placed along a hiking path. The distance between 2 flags is 3 m. The path is 234 m long. If a flag is placed at the start and at the end of the path, how many flags are there?

Ans: _____

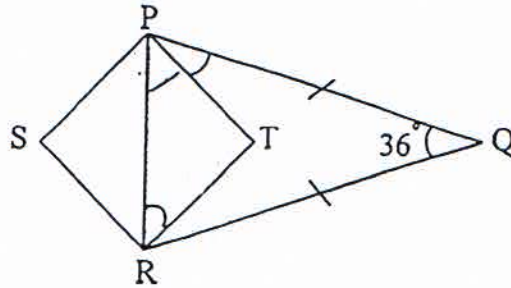
ABCF

- 3) The figure below is not drawn to scale. ABCD is a rectangle of area 168 cm^2 and $FE = ED = DC$. Find the total area of the shaded parts in the figure.



Ans: _____ cm^2

- 4) The figure below is not drawn to scale. PTRS is a square. $PQ = QR$ and $\angle PQR$ is 36° . Find $\angle QPT$.



Ans: _____ $^\circ$

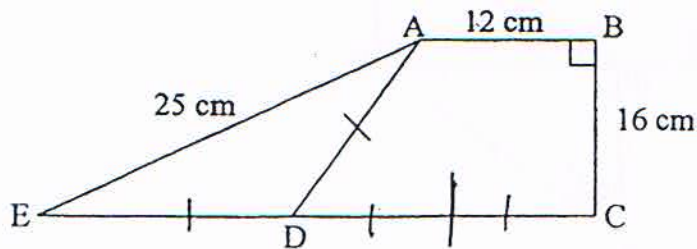
- 5) The ratio of the number of girls in the Chess Club to the number of girls in the Science Club is $11 : 8$. The ratio of the number of boys in the Chess Club to the number of boys in the Science Club is $5 : 6$. There are as many boys as girls in the Chess Club. If there are 12 more pupils in the Chess Club than the Science Club, what is the number of pupils in the Science Club?

Ans: _____

For questions 6 to 18, show your working clearly in the space provided for each question and write your answers in the spaces provided.

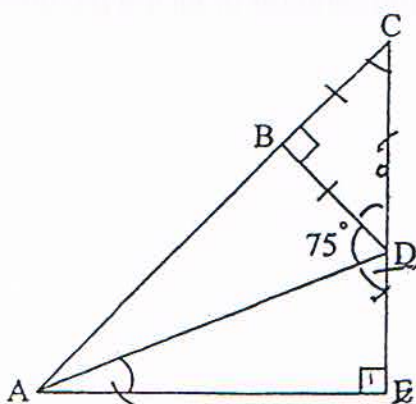
The number of marks available is shown in brackets [] at the end of each question or part question. (50 marks)

- 6) The figure below is not drawn to scale. The length of line CD is twice the length of DE. The perimeter of the figure is 98 cm. Find the area of the triangle ADE.



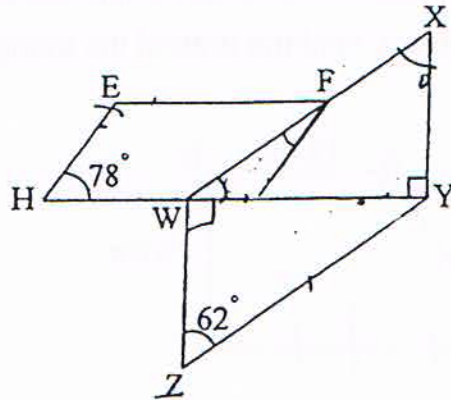
Ans: _____ [3]

- 7) The figure shown below is not drawn to scale. Given that ACE is a triangle and $\angle BDA = 75^\circ$, find $\angle DAE$.



Ans: _____ [3]

- 8) The figure shown below is not drawn to scale. EFGH and WXYZ are parallelograms. $\angle EHG = 78^\circ$ and $\angle WZY = 62^\circ$. Find $\angle WFG$.



Ans: _____ [3]

- 9) Henry collected 120 animal pictures and 80 plant pictures. He gave 30% of the animal pictures and 15% of the plant pictures to Sam. What percentage of all the pictures that Sam received were animal pictures?

Ans: _____ [3]

- 10) Faizal saves \$1.20 each day from Monday to Friday. He saves \$2 each day on Saturday and Sunday. What is the least number of days he will take to save \$96?

Ans: _____ [3]

- 11) Mrs Rani made some pies. She sold $\frac{3}{4}$ of them in the morning and $\frac{5}{8}$ of the remaining pies in the afternoon. She sold 114 more pies in the morning than in the afternoon. How many pies were unsold?

Ans: _____ [3]

12) At 2 p.m., the ratio of the number of girls to the number of boys at a library was 5 : 4. After 2 p.m., 40 girls left the library and 40 boys entered the library and the ratio became 3 : 4.

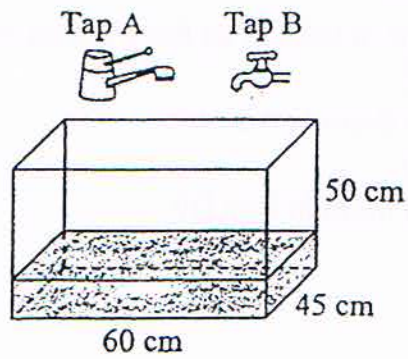
(a) How many girls were there at the library at first?

(b) How many more boys than girls were there at the library after 2 p.m.?

Ans: (a) _____ [2]

(b) _____ [2]

- 13) An empty rectangular tank measures 60 cm by 45 cm by 50 cm was $\frac{1}{4}$ filled with water. Both taps A and B were then turned on to fill the tank to the brim. 0.6 l of water flowed out from tap A every minute. If the tank was filled to the brim in 90 minutes, what was the amount of water that flowed out from tap B in one minute?



Ans: _____ [4]

14) The total number of balls in Box A and Box B is 165 ^{less} ~~more~~ than the total number of balls in Box A and Box C. The number of balls in Box C is 4 times the number of balls in Box B. The number of balls in Box D is 3 times the total number of balls in Box A and Box B. If the total number of balls in all the 4 boxes is ⁷⁵² ~~750~~.

(a) How many balls ^{are} ~~were~~ there in Box A?

(b) How many balls ^{are} ~~were~~ there in Box D?

Ans: (a) _____ [3]

(b) _____ [1]

15) $\frac{2}{5}$ of the animals in a farm were cows and the rest were sheep and goats. 20% of the sheep and 12% of the goats were sold. There was an equal number of sheep and goats left. If there were 352 sheep and goats left,

- (a) what was the number of cows?
- (b) what was the total number of animals in the farm at first?

Ans: (a) _____ [1]

(b) _____ [1]

16) Don and Larry had 315 stickers altogether. Don gave $\frac{1}{4}$ of his stickers to Larry. After that, Larry gave $\frac{1}{2}$ of all that he had to Don. In the end, Don had twice as many stickers as Larry.

- (a) How many stickers did Don have at first?
- (b) How many stickers did Larry have at first?

Ans: (a) _____ [3]

(b) _____ [2]

- 17) In May, the average number of participants in one pottery class was 24. In June, 5 new pottery classes were added. The average number of participants in all the pottery classes became 26. If there were 32 participants in each of the new pottery classes, find the total number of participants in all the pottery classes in June.

Ans: _____ [5]

- 18) Ali used some rectangular and square tiles to make a wall design. The rectangular tiles were sold ^{at} 3 for \$12 and the square tiles were sold ^{at} 2 for \$6. If he spent \$546 on an equal number of rectangular and square tiles, how many rectangular and square tiles did he use altogether?

Ans: _____ [5]

~END OF PAPER~
Do check your work thoroughly.



ANSWER SHEET

EXAM PAPER 2011

SCHOOL : ROSYTH
SUBJECT : PRIMARY 5 MATHEMATICS

TERM : SA2

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
4	3	2	2	3	1	3	1	3	4	4	2	3	4	2

- 16) 42750 17) 50 18) 1/12 19) \$5.65 20) 4 : 13
 21) 2 22) 27cm 23) 2L 790ml 24) 14 cubes 25) HD
 26) \$16.20 27) 70 sweets 28) 26 29) 32cm² 30) \$206.80

Paper 2

- 1) January to May → 5 months
 June to December → 7 months
 $30496 \times 5 \text{ months} = 152480$
 $32580 \times 7 \text{ months} = 228060$
 $228060 - 152480 = 75580$

- 2) 1 interval → 3m
 $234\text{m} / 3\text{m} = 78 \text{ intervals}$
 $78 + 1 = 79 \text{ flags}$

- 3) 56cm²

- 4) $180^\circ - 18^\circ - 135^\circ = 27^\circ$

- 5) $10u - 106u = 4u$
 $4u \rightarrow 12$
 $1u \rightarrow 3$
 $106u \rightarrow 318$

- 6) $3u \rightarrow 98\text{cm} - 25\text{cm} - 12\text{cm} - 16\text{cm} = 45\text{cm}$
 $1u \rightarrow 15\text{cm}$
 $\triangle ADE \rightarrow \frac{1}{2} \times 15\text{cm} \times 16\text{cm} = 120\text{cm}^2$

- 7) $180^\circ - 90^\circ \div 2 = 45^\circ$
 $180^\circ - 45^\circ - 75^\circ = 60^\circ$
 $180^\circ - 90^\circ - 60^\circ = 30^\circ$

8)50°

$$\begin{aligned}9) & 30/100 \times 120 = 36 \\ & 15/100 \times 80 = 12 \\ & 36 + 12 = 48 \\ & 36/48 \times 100\% = 75\%\end{aligned}$$

10)68 days

$$\begin{aligned}11) & 4/4 - 3/4 = 1/4 \\ & 5/8 \times 1/4 = 5/32 \\ & 3/4 = 24/32 \\ & 24/32 - 5/32 = 19/32 \\ & 19/32 \rightarrow 114 \\ & 1/32 \rightarrow 6 \\ & 3/8 \times 1/4 = 3/32 \\ & 3/32 \rightarrow 18 \text{ pies}\end{aligned}$$

12)a)175 girls
b)45 more boys than girls

$$\begin{aligned}13) & \text{unfilled } 4/4 - 1/4 = 3/4 \\ & \text{not filled} \rightarrow 3/4 \times 60\text{cm} \times 45\text{cm} \times 50\text{cm} \\ & = 101250\text{cm}^3 = 101.25\text{L} \\ & 0.6\text{L} \times 90\text{mins} = 54\text{L} \\ & 101.25\text{L} - 54\text{L} = 47.25\text{L} \\ & \underline{47.25\text{L}} \Rightarrow 0.525\text{L} \\ & 90\text{mins} \Rightarrow 525\text{ml}\end{aligned}$$

$$\begin{aligned}14) & \text{a) } 3u \rightarrow 165 \\ & 1u \rightarrow 55 \\ & 8u \rightarrow 440 \\ & 4p \rightarrow 752 - 440 = 312 \\ & 1p \rightarrow 78 \\ & \text{Box A} \rightarrow 78 \text{ balls} \\ & \text{b) Box D} \rightarrow (78 \times 3) + (55 \times 3) \\ & = 399 \text{ balls}\end{aligned}$$

15)a)280 cows
b)700 animals

16)a)140 stickers
b)175 stickers

17)520 participants

18)156 tiles