



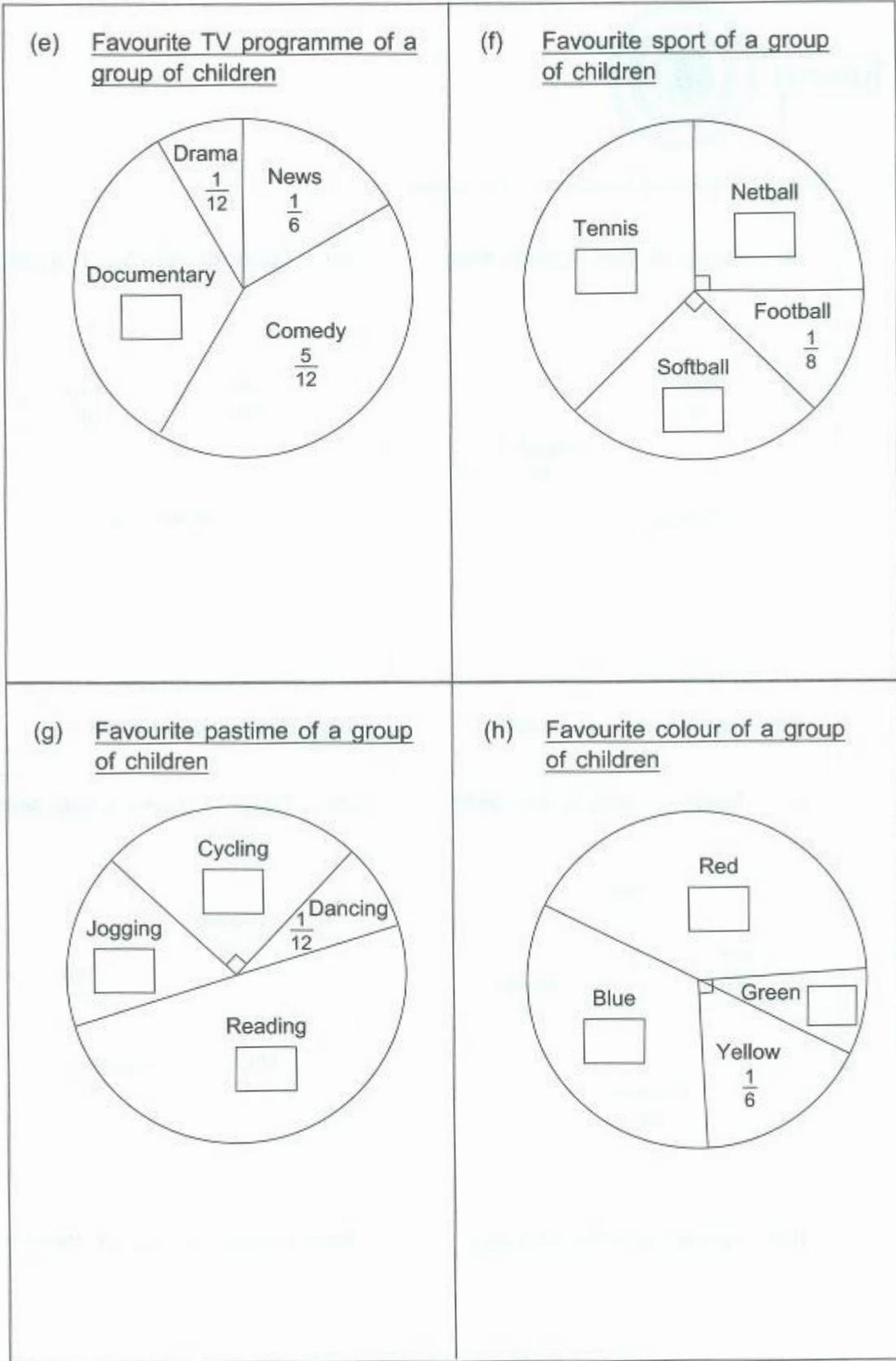
1. Fill in the missing number in the boxes.

<p>(a) <u>Types of fruits a shop sells</u></p> <p style="text-align: center;">Total number of fruits = 200</p>	<p>(b) <u>Types of vehicles in a carpark</u></p> <p style="text-align: center;">Total number of vehicles = <input style="width: 40px;" type="text"/></p>
<p>(c) <u>Types of satay a stall sells</u></p> <p style="text-align: center;">Total number of sticks of satay = <input style="width: 40px;" type="text"/></p>	<p>(d) <u>Types of drinks a stall sells</u></p> <p style="text-align: center;">Total number of cups of drinks = 80</p>

Answer

Question 1

- a) Orange = 60
- b) Motorcycle = 240
Total = 480
- c) Veal = 150,
Total = 600
- d) Milo = 20
Horlicks = 18



Answer

Question 1

e) Documentary = $\frac{1}{3}$

f) Tennis = $\frac{3}{8}$

Netball = $\frac{1}{4}$

Softball = $\frac{1}{4}$

g) Jogging = $\frac{1}{6}$

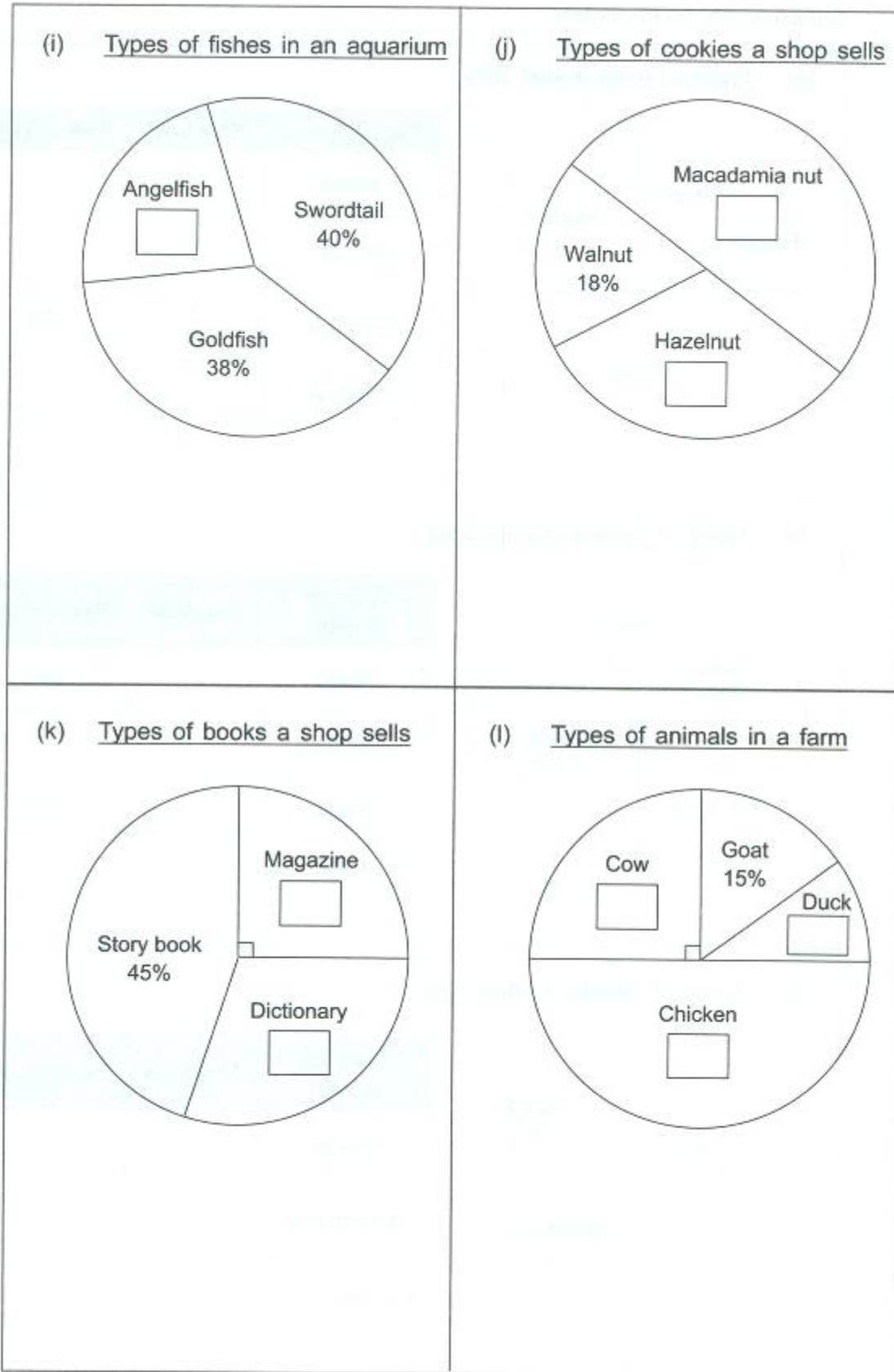
Cycling = $\frac{1}{4}$

Reading = $\frac{1}{2}$

h) Red = $\frac{5}{12}$

Blue = $\frac{1}{3}$

Green = $\frac{1}{12}$



Answer

Question 1

- j) Angelfish = 22%
- j) Macadamia Nut = 50%
Hazelnut = 32%
- k) Magazine = 25%
Dictionary = 30%
- l) Cow = 25%
Duck = 10%
Chicken = 50%

2. Complete the tables below.

(a) Types of fruits a stall sells

Type of fruit	Fraction	Percentage
Apple		
Mango		
Papaya	$\frac{1}{10}$	10%
Orange		

(b) Types of flowers a shop sells

Type of flower	Fraction	Percentage
Rose		45%
Carnation		
Orchid		20%
Tulip		

(c) Types of muffins a shop sells

Type of muffin	Fraction	Percentage
Vanilla		
Strawberry		
Chocolate		

Answer

Question 2a

- Apple = $\frac{1}{4}$, 25%
- Mango = $\frac{1}{2}$, 50%
- Orange = $\frac{3}{20}$, 15%

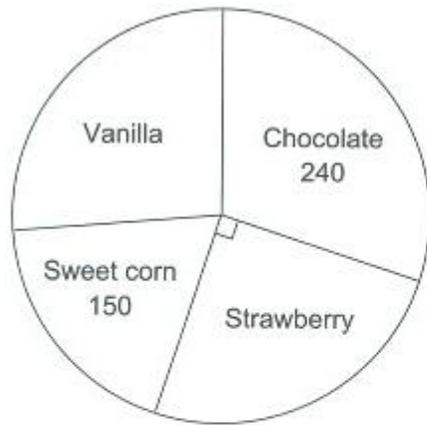
Question 2b

- Rose = $\frac{9}{20}$
- Carnation = $\frac{1}{4}$, 25%
- Orchid = $\frac{1}{5}$
- Tulip = $\frac{1}{10}$, 10%

Question 2c

- Vanilla = $\frac{1}{10}$, 10%
- Strawberry = $\frac{3}{10}$, 30%
- Chocolate = $\frac{3}{5}$, 60%

3. The pie chart below shows the favourite ice-cream flavours of 800 children.



Answer

Question 3

- a) 200
- b) $\frac{3}{16}$
- c) 210
- d) 30%
- e) 8 : 7

(a) How many children chose strawberry ice-cream?

Ans: _____ children

(b) What fraction of the children chose sweet corn ice-cream?

Ans: _____

(c) How many children chose vanilla ice-cream?

Ans: _____ children

(d) What percentage of the children chose chocolate ice-cream?

Ans: _____ %

(e) Find the ratio of the number of children who chose chocolate to the number of children who chose vanilla.

Ans: _____

4. The pie chart below shows the types of drinks sold from a vending machine.



Answer

Question 4

- a) Milo
- b) $\frac{1}{6}$
- c) 40%
- d) 270

(a) What was the most popular drink?

Ans: _____

(b) What fraction of the drinks sold was tea?

Ans: _____

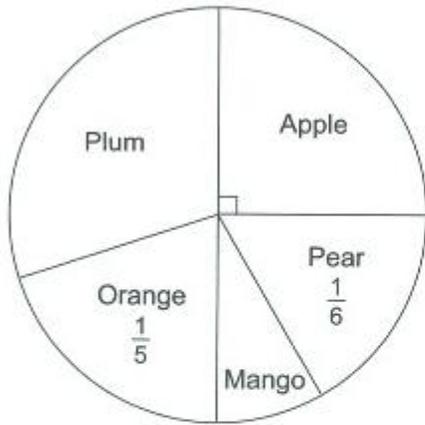
(c) What percentage of the drinks sold was Milo?

Ans: _____ %

(d) If 90 cups of coffee were sold, how many cups of Milo were sold?

Ans: _____ cups

5. The pie chart below shows the types of fruits sold by Mr Ong.



Answer

Question 5

- a) $\frac{3}{10}$
- b) $\frac{1}{12}$
- c) 75%
- d) 800

(a) What fraction of the fruits sold were plums?

Ans: _____

(b) What fraction of the fruits sold were mangoes?

Ans: _____

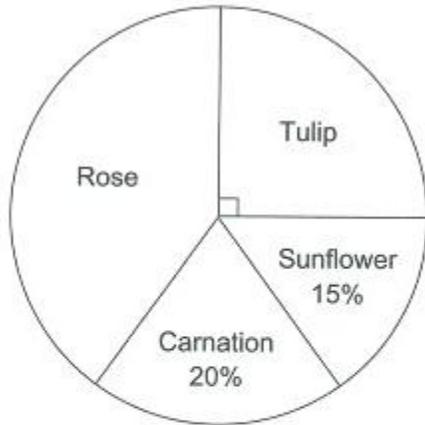
(c) What percentage of the fruits sold were not apples?

Ans: _____ %

(d) If Mr Ong sold 200 apples, how many fruits did he sell altogether?

Ans: _____ fruits

6. The pie chart below shows the types of flowers sold by a florist.



Answer

Question 6

- a) 40%
- b) $\frac{3}{20}$
- c) sunflower
- d) 240
- e) 600

(a) What percentage of the flowers sold were roses?

Ans: _____ %

(b) What fraction of the flowers sold were sunflowers?

Ans: _____

(c) What was the least popular flower?

Ans: _____

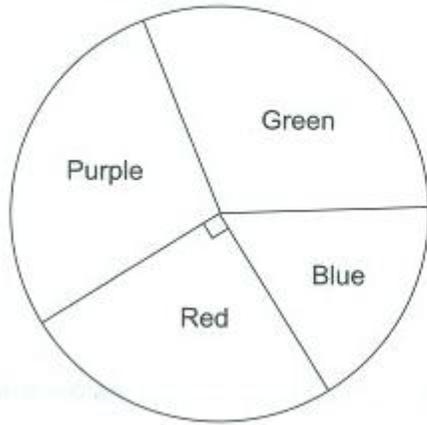
(d) If the florist sold 150 stalks of tulips, how many stalks of roses did he sell?

Ans: _____ stalks

(e) How many stalks of flowers did the florist sell altogether?

Ans: _____ stalks

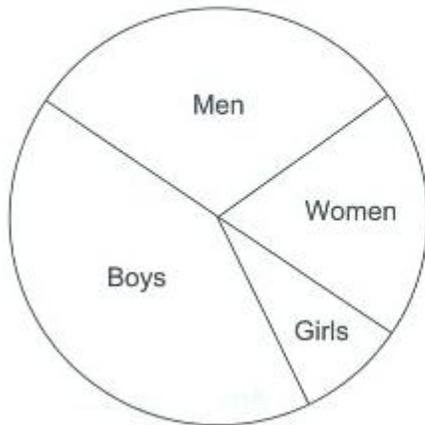
7. The pie chart below shows the colours of balloons sold by a shop. A quarter of the balloons sold were of which colour?



Answer
 Q7) red
 Q8) 50%
 Q9) 600

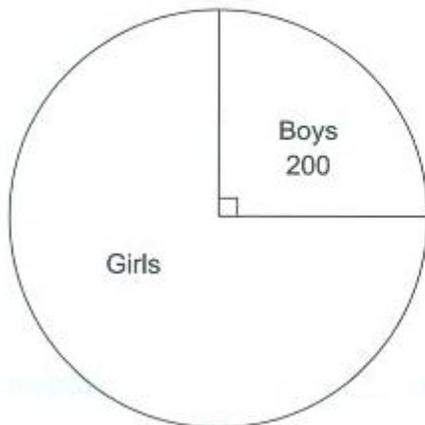
Ans: _____

8. The pie chart below shows the attendance at an exhibition. What percentage of the people were children?



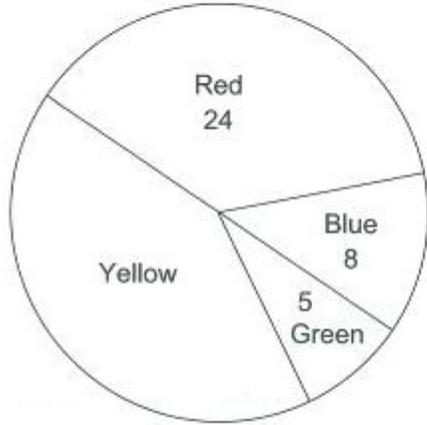
Ans: _____ %

9. The pie chart below shows the number of boys and girls at a library. How many girls were there?



Ans: _____ girls

10. The pie chart below shows Jack's marbles. Half of his marbles are red and blue. How many yellow marbles does he have?



Ans: _____ yellow marbles

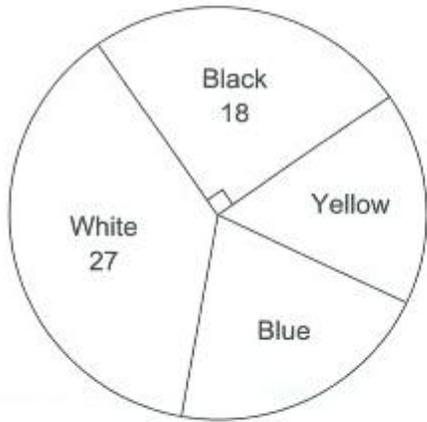
Answer

Q10) 27

Q11) $\frac{3}{8}$

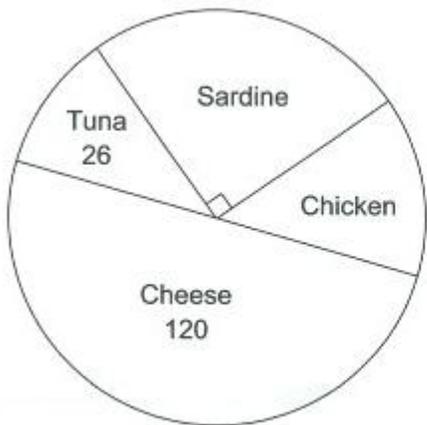
Q12) 34

11. The pie chart below shows the number of paper clips of different colours in a box. What fraction of the paper clips are white?



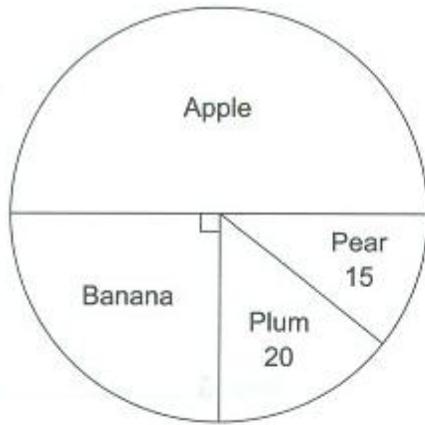
Ans: _____

12. The pie chart below shows the number of buns sold by a shop. How many chicken buns did it sell?



Ans: _____ chicken buns

13. The pie chart below shows the favourite fruit of a group of children. How many children chose apple?



Answer

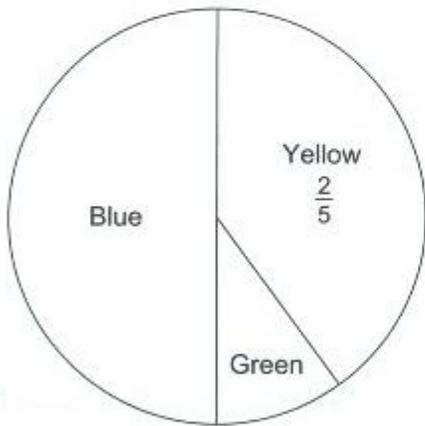
Q13) 70

Q14) 30

Q15) 195

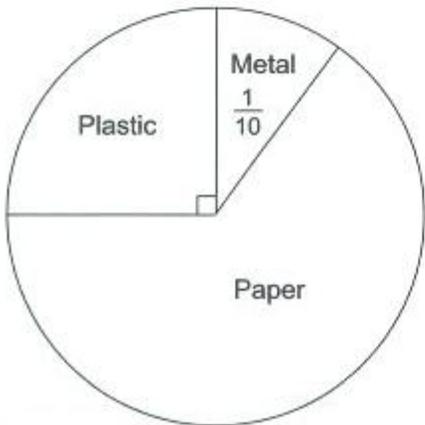
Ans: _____ children

14. The pie chart below shows Ronnie's marbles. If he has 6 green marbles, how many blue marbles does he have?



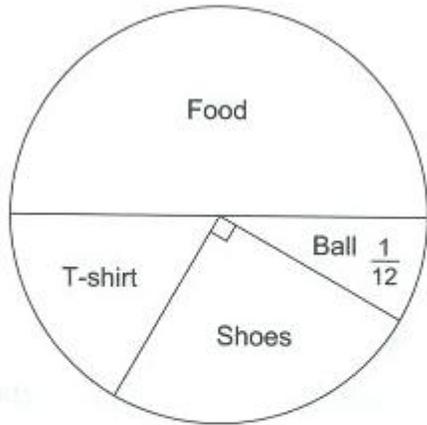
Ans: _____ blue marbles

15. The pie chart below shows the types of files sold by a shop. If the shop sold 30 metal files, how many paper files did it sell?



Ans: _____ paper files

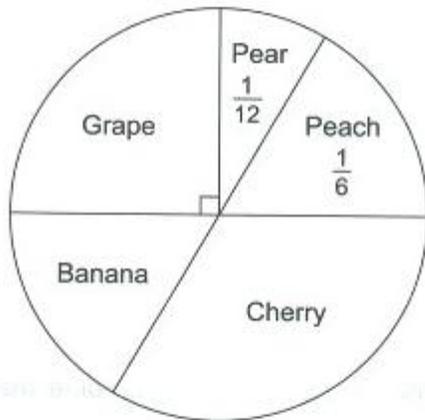
16. Marc had \$120. The pie chart below shows how he spent the money. How much did he spend on the T-shirt?



Answer
 Q16) \$20
 Q17) 60
 Q18) 27

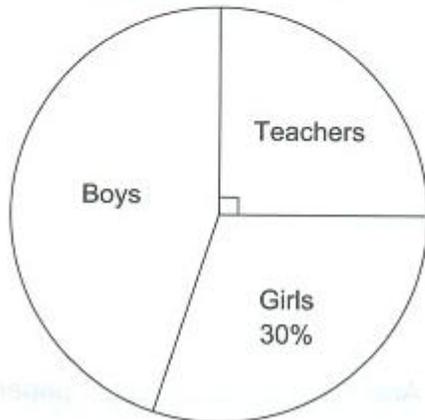
Ans: \$ _____

17. The pie chart below shows the favourite fruit of a group of pupils. If 30 pupils chose peach, how many pupils chose cherry?



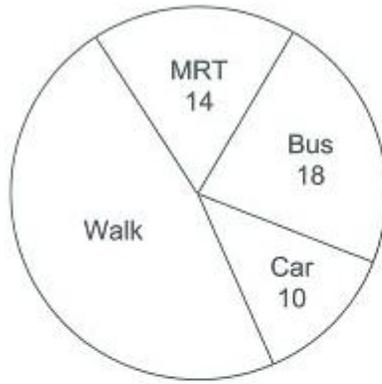
Ans: _____ pupils

18. The pie chart below shows the percentage of teachers, girls and boys on a ferry. If there were 60 people on the ferry, how many boys were there?



Ans: _____ boys

19. The pie chart below shows how 80 pupils travel to school every day.



- (a) How many pupils walk to school?
- (b) What fraction of the pupils take the bus to school?

Answer

Question 19

(a) 38

(b) $\frac{9}{40}$

Question 20

(a) 480

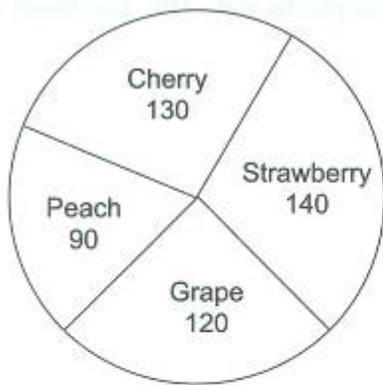
(b) $\frac{7}{24}$

(c) grape

Ans: (a) _____ pupils

(b) _____

20. A group of pupils was asked to choose their favourite fruit. Their choices are shown in the pie chart below.



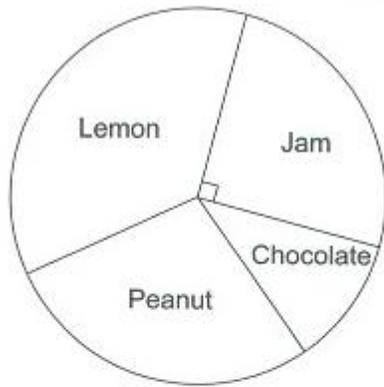
- (a) Find the total number of pupils in the group.
- (b) Find the fraction of pupils who chose strawberry.
- (c) Which fruit was chosen by 25% of the pupils?

Ans: (a) _____ pupils

(b) _____

(c) _____

21. The pie chart below shows the types of tarts sold by a shop.



- (a) Which was the most popular tart sold by the shop?
- (b) Which type of tart made up a quarter of the tarts sold by the shop?
- (c) If the shop sold 535 jam tarts, how many tarts did the shop sell altogether?

Answer

Question 21

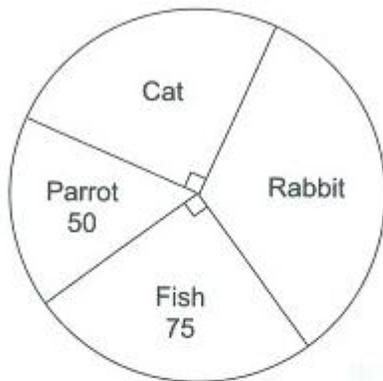
- (a) lemon tart
- (b) Jam tart
- (c) 2140

Question 22

- (a) 300
- (b) 100
- (c) $16\frac{2}{3}\%$

Ans: (a) _____
 (b) _____
 (c) _____ tarts

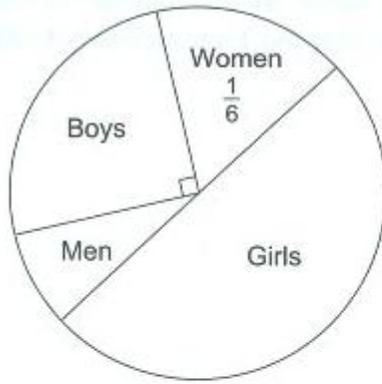
22. A group of children were asked to name their favourite pet. The pie chart below shows their choices.



- (a) Find the total number of children in the group.
- (b) How many children chose rabbit?
- (c) What percentage of the children chose parrot?

Ans: (a) _____ children
 (b) _____ children
 (c) _____ %

23. The pie chart below shows the fraction of men, women, boys and girls at a museum.



Answer

Question 23

- a) $\frac{1}{12}$
- b) 375

Question 24

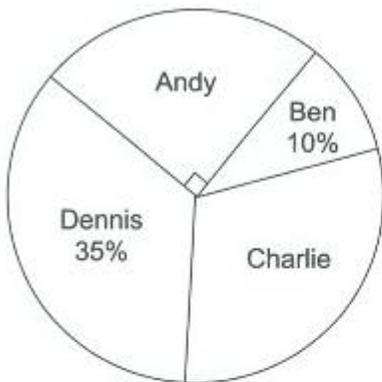
- a) $\frac{3}{10}$
- b) \$240

- (a) What fraction of the people at the museum were men?
- (b) If there were 125 women at the museum, how many girls were there?

Ans: (a) _____

(b) _____ girls

24. The pie chart below shows the percentage of money collected by 4 pupils, Andy, Ben, Charlie and Dennis for a charitable organisation.



- (a) What fraction of the money did Charlie collect?
- (b) If Andy collected \$80, how much did Ben, Charlie and Dennis collect altogether?

Ans: (a) _____

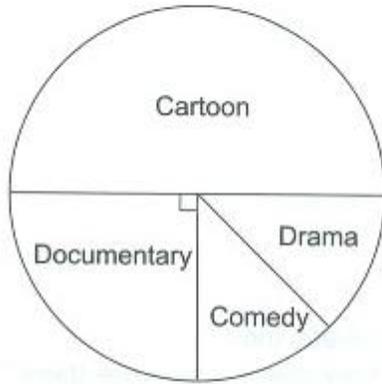
(b) \$ _____

25. The pie chart below shows the favourite TV programmes of a group of children. The number of children who chose drama is the same as the number of children who chose comedy. If 25 children chose comedy, find the total number of children in the group.

Answer
Q25) 200

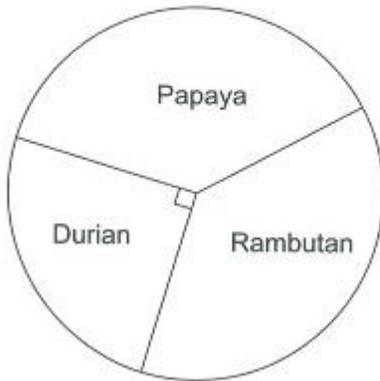
Question 26

- a) $\frac{3}{8}$
b) 10



Ans: _____ children

26. The pie chart below shows the types of fruit trees in an orchard. There is an equal number of rambutan trees and papaya trees.

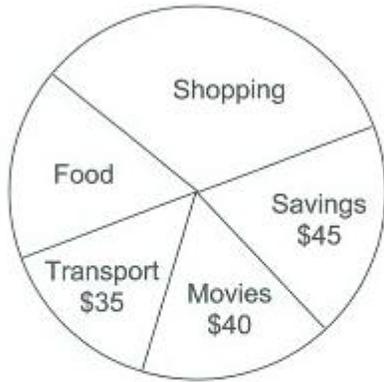


- (a) What fraction of the trees are rambutan trees?
(b) If there are 15 papaya trees, how many durian trees are there?

Ans: (a) _____

(b) _____ durian trees

27. The pie chart below shows how Lisa spent her monthly pocket money. She spent half of her pocket money on food and shopping. She spent the same amount of money on food as on movies.



- (a) How much did Lisa spend on shopping?
 (b) What fraction of her pocket money did she spend on movies?
 (c) What percentage of her pocket money did she save?

Answer

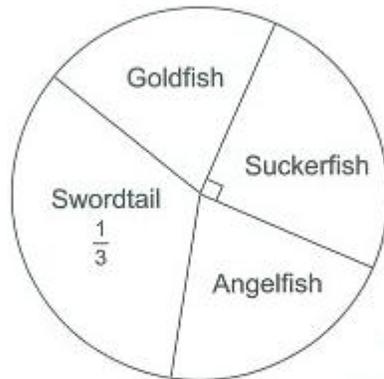
- Question 27
 a) \$80
 b) $\frac{1}{6}$
 c) 18.75%

Question 28

- a) $\frac{5}{24}$
 b) 10

Ans: (a) \$ _____
 (b) _____
 (c) _____ %

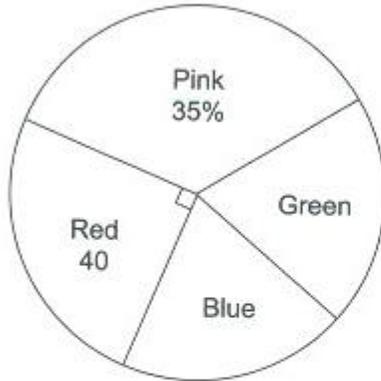
28. The pie chart below shows the types of fishes in Tom's aquarium. He has an equal number of goldfish and angelfish.



- (a) What fraction of the fishes in the aquarium are goldfish?
 (b) If Tom has 16 swordtails, how many angelfish does he have?

Ans: (a) _____
 (b) _____ angelfish

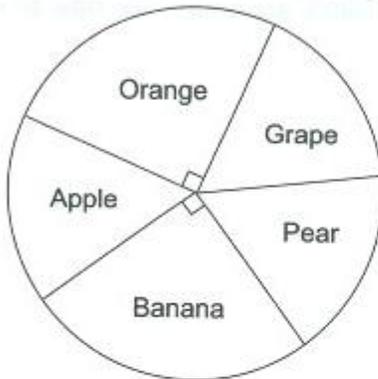
29. The pie chart below shows the colours of beads bought by Mrs Lim. She bought 40 red beads and the same number of blue and green beads.



- (a) What percentage of the beads were green?
 (b) How many pink beads did she buy?
 (c) How many beads did Mrs Lim buy altogether?

Ans: (a) _____ %
 (b) _____ pink beads
 (c) _____ beads

30. A group of children were asked to name their favourite fruit. Their choices are shown in the pie chart below. An equal number of children chose apple, grape and pear.



- (a) What fraction of the children chose apples?
 (b) What percentage of the children chose pear?
 (c) If 50 children chose grape, how many children were there in the group altogether?

Ans: (a) _____
 (b) _____ %
 (c) _____ children

Answer

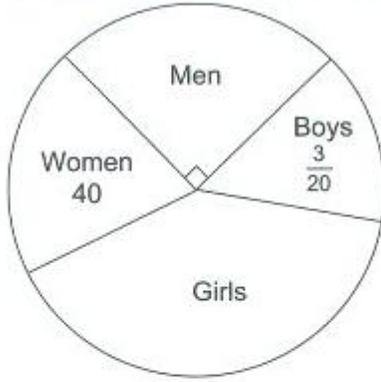
Question 29

- a) 20%
 b) 26
 c) 160

Question 30

- a) $\frac{1}{6}$
 b) $16\frac{2}{3}\%$
 c) 300

31. The pie chart below shows the attendance at a musical. There were twice as many girls as women. If there were 40 women, how many people were there altogether?

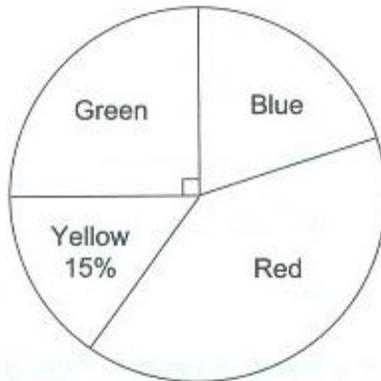


Answer
Q31) 200

Question 32
a) 20%
b) 180

Ans: _____ people

32. The pie chart below shows the colours of files sold by a shop. It sold twice as many red files as blue files.

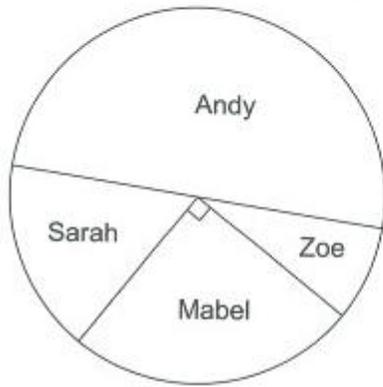


- (a) Find the percentage of the files sold that were blue.
(b) If the shop sold 18 more green files than yellow files, how many files did the shop sell altogether?

Ans: (a) _____ %

(b) _____ files

33. The pie chart below shows the number of votes received by each of the candidates in an election for class monitor. Zoe received $\frac{1}{3}$ as many votes as Mabel.



- (a) Find the fraction of votes received by Zoe.
 (b) Find the fraction of votes received by Sarah.
 (c) If Zoe received 30 votes, how many votes did Andy receive?

Answer

Question 33

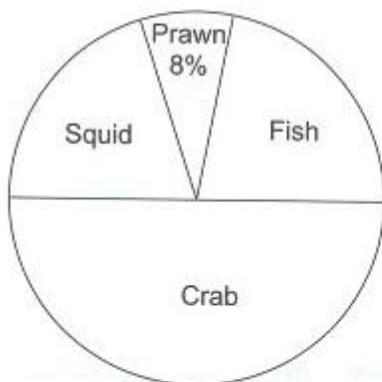
- a) $\frac{1}{12}$
 b) $\frac{1}{6}$
 c) 180

Question 34

- a) 22%
 b) 450

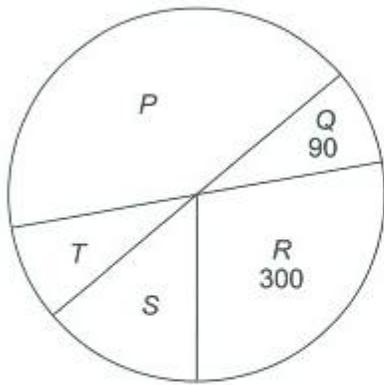
Ans: (a) _____
 (b) _____
 (c) _____ votes

34. The pie chart below shows the favourite seafood of a group of people. If the people who chose prawn were $\frac{2}{5}$ of the people who chose squid, find the percentage of the people who chose fish.



Ans: _____ %

35. A shop sold 5 types of pizzas, *P*, *Q*, *R*, *S* and *T*. The pie chart below shows the number of pizzas sold by the shop. Half as many Type *S* pizzas were sold as Type *R*. How many Type *P* pizzas were sold?



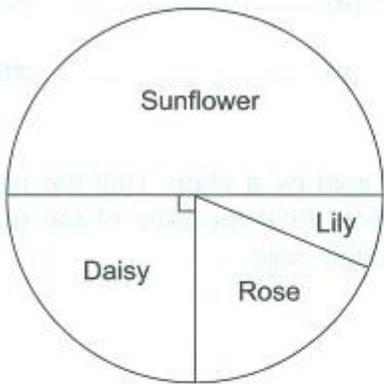
Answer
Q35) 450

Question 36

- a) $\frac{1}{16}$
b) 43.75%

Ans: _____ pizzas

36. A florist sells 4 types of flowers. The pie chart below shows the number of stalks of flowers sold. The ratio of the number of stalks of roses to the number of stalks of sunflowers sold was 3 : 8.

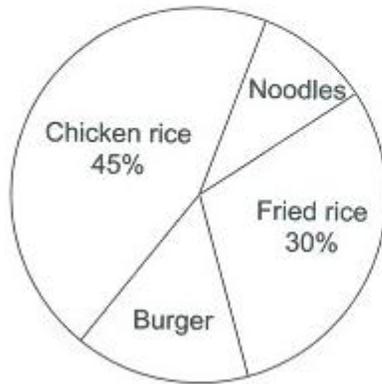


- (a) What fraction of the flowers sold were lilies?
(b) What percentage of flowers sold were daisies and roses?

Ans: (a) _____

(b) _____ %

37. The pie chart below shows the favourite food of a group of children. The ratio of the number of children who chose noodles to the number of children who chose burger was 2 : 3.



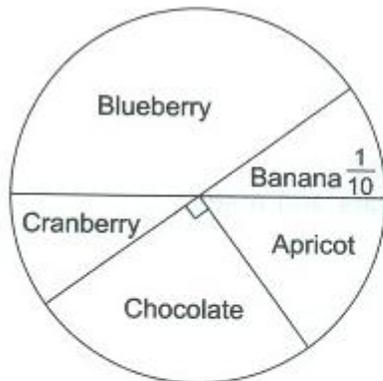
Answer
 Question 37
 a) 15%
 b) 120

Q38) 3 : 8

- (a) What percentage of the children chose burger?
 (b) If 180 children chose chicken rice, how many children chose fried rice?

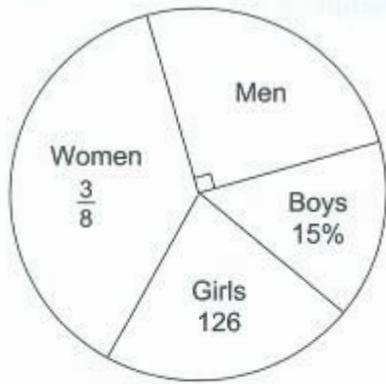
Ans: (a) _____ %
 (b) _____ children

38. The pie chart below shows the types of muffins sold by a shop. Half the number of muffins sold were blueberry and banana muffins. Find the ratio of the number of apricot muffins to the number of blueberry muffins sold.



Ans: _____

39. The pie chart below shows the number of men, women, boys and girls at a piano recital. How many women were there?

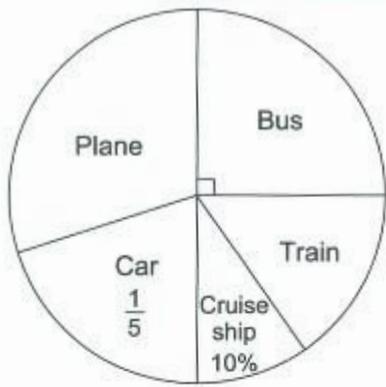


Answer
Q39) 210

Question 40
a) 15%
b) 156

Ans: _____ women

40. A group of 520 people were asked to choose their most preferred mode of transport to travel from Singapore to Penang. Their choices are displayed in the pie chart below.

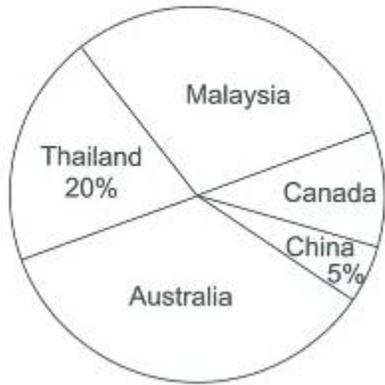


- (a) What percentage of the people chose to travel by train?
- (b) How many people chose to travel by plane?

Ans: (a) _____ %

(b) _____ people

41. Jason collects stamps. The pie chart below shows his collection of 900 stamps. Half of his stamps are from Malaysia and Thailand. The ratio of the number of Australian stamps to the number of Canadian stamps is 7 : 2.



- (a) How many Malaysian stamps does he have?
 (b) How many Australian stamps does he have?

Answer

Question 41

- a) 270
 b) 315

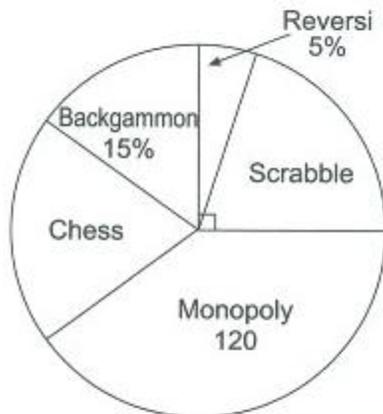
Question 42

- a) $\frac{1}{5}$
 b) 40%
 c) 300

Ans: (a) _____ Malaysian stamps

(b) _____ Australian stamps

42. The pie chart below shows the favourite board game of a group of children. There was an equal number of children who chose Scrabble and Chess.



- (a) What fraction of the children chose Chess?
 (b) What percentage of the children chose Monopoly?
 (c) Find the total number of children in the group.

Ans: (a) _____

(b) _____ %

(c) _____ children