

Confirming security and confidence

at

Level D

(Note: items are arranged by Attainment Outcome, Strand and Target)

LEVEL D: NUMBER, MONEY AND MEASUREMENT

1. What is 5 more than 63 996?

Answer: _____

2. This chart shows the amount of petrol sold during the first six months of the year.

Month	Amount of petrol sold in litres
Jan	42 370
Feb	49 920
Mar	49 980
Apr	45 600
May	44 970
Jun	48 200

Write the numbers in order starting with the smallest.

Answer: _____

3. Write twenty three thousand five hundred in figures.

Answer: _____

4. The Moon is 239 084 miles from Earth.

Write this number in words.

Answer: _____

5. Write $\frac{1}{4}$ as a decimal.

Answer: _____

6. Another way of writing 22.25 litres is

22 $\frac{1}{2}$ litres

22 $\frac{2}{10}$ litres

22 $\frac{1}{4}$ litres

22 $\frac{2}{5}$ litres.

Underline the correct answer.

7. Write 10% as a fraction. Write your answer in its simplest form.

Answer: _____

8. Write 40% as a fraction. Write your answer in its simplest form.

Answer: _____

9. Write $\frac{3}{4}$ as a percentage.

Answer: _____ %

10. Write 3 m 5 cm as a decimal.

Answer: 3m 5cm= _____ m

11. Write 1 m 75 cm as a decimal.

Answer: 1m 75cm= _____ m

12. Write 268 centimetres in metres.

Answer: _____ m

13. How many grams are in 4.5 kilograms?

Answer: _____ grams













14. Jenna has these coins and a £20 note.

How much money does she have altogether?



Answer: £ _____

15. Circle the notes and coins to show one way of making £26.25.

£10	£5				
£10	£5				
£10	£5				

16. Complete the table to show notes and coins totalling £19.58.

Value	£10	£5	£1	50p	20p	10p	5p	2p	1p
Number									

17. Write down the smallest number of notes and coins needed to make £15.75.

Answer:

18. How many 20p coins are in £15?

Answer: _____ 20p coins

19. How many 50p coins are in £20?

Answer: _____ 50p coins

20. How many 10p coins are in £10?

Answer: _____ 10p coins

21. 572 tickets were sold in April and 2029 tickets were sold in May.
How many tickets were sold altogether?

Answer: _____ tickets

22. The ship The Titanic set sail with 1316 passengers. It could hold another 2295 passengers.
How many passengers could it hold altogether?

Answer: _____ passengers

23. Jan took 12.5 seconds to swim a length and 12.9 seconds to swim a second length.
How long did she take to swim the two lengths?

Answer: _____ seconds

24. Sam buys new oilskins and wellingtons for the fishing trip.
The oilskins cost £38.90 and the Wellingtons cost £14.99
How much did he have to pay altogether?

Answer: £ _____

25. Shareen and Leroy cycled 2089 metres to school.
Their return journey was 1796 metres.
How much longer was their journey to school than their journey home?

Answer: _____ metres

26. When Roy leaves rig D his trip recorder reads 809.9 km.
When he reaches rig B it reads 938.7 km.
What is the distance between rig D and rig B?

Answer: _____ km

27. A piece of wood 1.75 metres long is cut from a piece 4.25 metres long.
Work out the length of the piece which is left over.

Answer: _____ metres

28. Tom had £40. He spent £12.75 on cassettes.
How much money has he left?

Answer: £ _____

29. In April, 1996 people visited the castle.
In May there were 2009 visitors and in June there were 2703.
What is the total number of visitors over the three months?

Answer: _____ visitors

30. The space shuttle has carried out
4 missions.

Mission 1	150.8 thousand miles
Mission 2	214.2 thousand miles
Mission 3	230.0 thousand miles
Mission 4	402.5 thousand miles

How many thousand miles has the space shuttle travelled altogether?

Answer: _____ thousand miles

31. Here is the ticket money collected each night.

Tuesday - £250.70 Wednesday - £196.80
Thursday - £201.00 Friday - £222.40

What was the total ticket money collected?

Answer: £ _____

32. Nethybraes has many visitors each year.

<i>Number of Visitors</i>	
Year 1	1005
Year 2	1533
Year 3	1707

How many more visitors were there in year 3 than in year 2?

Answer: _____ visitors

33. There is 50 metres of cloth on a roll.
A customer buys 13.85 metres.
What length of material is left on the roll?

Answer: _____ metres

34. Here is the ticket money collected each night.

Tuesday - £250.70
Thursday - £201.00

Wednesday - £196.80
Friday - £222.40

How much more money was collected on Tuesday than on Wednesday?

Answer: £ _____

35. What is 800×5 ?

Answer: _____

36. What is $£35 \div 100$

Answer: _____

37. The chef orders 7 crates of eggs. There are 144 eggs in each crate.
How many eggs is this altogether?

Answer: _____ eggs

38. A sack weighs 47.5 kilograms.
What is the total weight of 7 sacks

Answer: _____ kilograms

39. The cost of a holiday is £279 for one person. How much does it cost for 4 people?

Answer: £ _____

40. Car parking at the airport costs £17.50 for one week. How much does it cost for 3 weeks?

Answer: £ _____

41. 162 chairs are set out in the hall. There are 9 chairs in each row.
How many rows are there?

Answer: _____ rows

42. There is a large block of flats in Rose Street.
The block of flats is 40.5 metres high. There are 9 stories.
What is the height of one storey.

Answer: _____ metres

43. In the kitchen there are 6 cupboards. The total cost of the cupboards was £546.
What was the cost of one cupboard?

Answer: £ _____

44. The space ship took exactly 372 days to reach Planet Z. How many hours was this?

Answer: _____ hours

45. Each costume needed 3.25 metres of material.
How many metres were needed for 36 costumes?

Answer: _____ metres

46. 32 pupils from Bonnyton School are going to Nethybraes.
What is the total cost?

Cost of the holiday = £95.50 for each pupil

Number of pupils = 32

Total cost _____

47. Bottles of shampoo are packed in boxes of 48.
How many boxes are needed for 3216 bottles of shampoo?

Answer: _____ bottles of shampoo

48. In 13 orbits of the earth the space shuttle travels 375.7 thousand miles.
How far does it travel in one orbit?

Answer: _____ thousand miles

49. An order has been received for some garden plants.

<i>Customer</i>	<i>Town</i>	<i>Amount</i>	<i>Item</i>	<i>Total Cost</i>
Mr A White	Edinburgh	18	Rose Bushes	£89.82

What is the cost of 1 rose bush?

Answer: £ _____

50. Round 17.25 to the nearest kg.

Answer: _____ kg

51. Round 1476 to the nearest hundred.

Answer: _____

52. 568 customers shop at Smith's on Christmas Eve.
Round 568 to the nearest hundred.

Answer: _____

53. What is $\frac{1}{7}$ of 6300?

Answer: _____

54. Calculate $\frac{1}{6}$ of 180.

Answer: _____

55. What is $\frac{2}{3}$ of 30 m?

Answer: _____ m

56. What is $\frac{3}{4}$ of 400?

Answer: _____

57. There are 15 dancers are on stage. $\frac{3}{5}$ of the dancers are women.

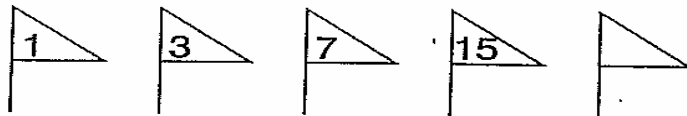
How many are women?

Answer: _____ women

58. Write down the next number in the sequence.

20, 18, 15, 11, _____

59. The numbers on the flags follow a sequence.



Complete the sequence.

60. These numbers are in a **special sequence**.

2 3 5 8

Explain why the last digit is 8.

Answer: _____

61. The table shows when an aeroplane should be inspected.

Inspection	Miles flown
1st inspection	1500
2nd inspection	3000
3rd inspection	4500
4th inspection	6000
5th inspection	7500

Explain the rule which links the number of miles flown with the number of inspections.

Answer: _____

62. The table shows the cost of plants.

Number of plants	10	20	30	40	50
Cost	£25	£50	£75	£100	£125

Explain the rule which links the cost with the number of plants.

Answer: _____

63. The Superstore sells lots of different kinds of sweets.

<i>Number of sweets</i>	<i>Cost</i>
5	40p
10	80p
15	£1.60

Explain the rule which links the cost with the number of sweets. Complete the sentence.

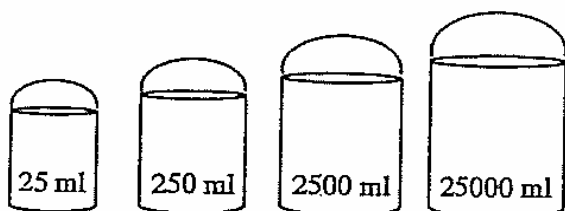
ANSWER: To find the cost of any number of sweets you _____

64. What is the length of the nose cone of this rocket?



Answer: _____ millimetres

65. Tick the tin which holds 2.5 litres.



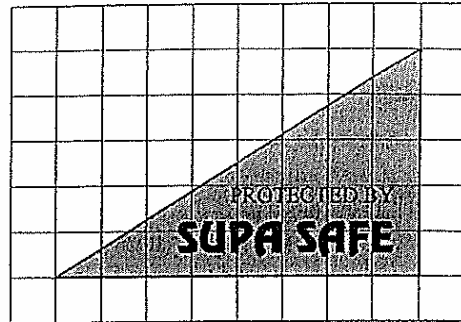
66. A bucket holds 5000 millilitres of water. How many litres is this?

Answer: _____ litres

67. A small fish tank holds 27 000 millilitres of water. How many litres is this?

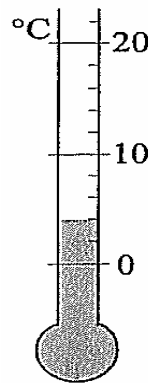
Answer: _____ litres

68. What is the area of the shaded triangle?



Answer: _____ square centimetres

69. What is the temperature on the thermometer?



Answer: _____

70. A 1p coin measures exactly 2 cm across. Its area is likely to be

- less than 2 cm^2
- exactly 2 cm^2
- exactly 4 cm^2
- between 2 cm^2 and 4 cm^2
- more than 4 cm^2



Tick your answer.

71. Jane calculates the distance from the Town Centre to the school.
Underline the distance which is most likely.

1500 mm 150 cm 15 m 1.5 km

72. Which of these units may be used to measure petrol?
Underline the correct answer.

degrees centimetres millilitres litres kilograms

73. Underline the time which is the same as 15.10.

ten past 5 quarter past 10 ten past 3 quarter to 10

74. Write 3.30 pm as 24 hour clock time.

Answer: _____

75. Alan starts work at 8.40 am and finishes at 1.10 pm.
How long does he work?

Answer: _____

76. The show started at 7.15 pm and finished $2\frac{1}{2}$ hours later.
At what time did the show finish.

Answer: _____

77. A van left the warehouse at 6.25 am and returned at 4.05 pm.
How long did it take the van to make its deliveries?

Answer: _____

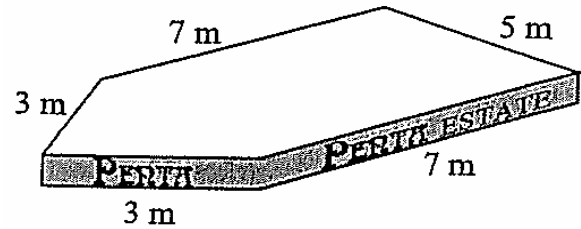
78. Jason ran the race in 3 minutes 48 seconds. Garry was 15 seconds slower.
What was Garry's time for the race?

Answer: _____

79. Kelly takes 8 seconds to ski down 96 metres. Write her speed in metres per second.

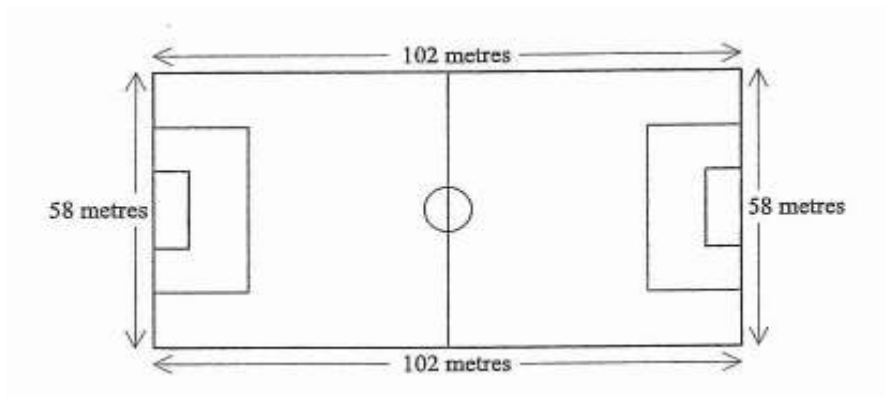
Answer: _____

80. What is the perimeter of this shape?



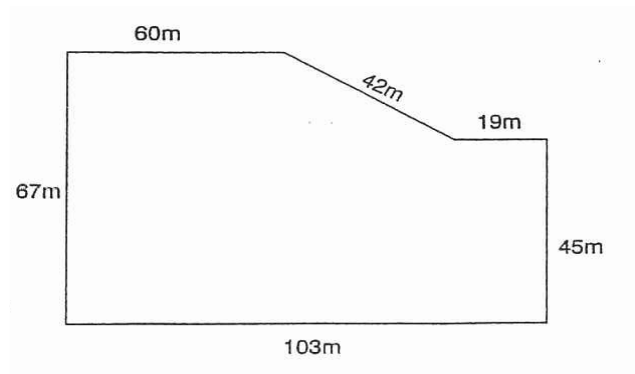
Answer: _____ m

81. Calculate the perimeter of the pitch.



Answer: _____ metres

82. Write down the sum you would do to calculate the perimeter.



Answer: _____ m

LEVEL D: INFORMATION HANDLING

1. The record sheet shows the sales of snacks at home games.

	<i>week 1</i>	<i>week 2</i>	<i>week 3</i>	<i>week 4</i>
<i>pies</i>				
<i>crisps</i>		206		
<i>coke</i>				

The record sheet shows that 206 packets of crisps were sold in week 2.

Show on the table that 156 cans of coke were sold in week 4.

2. Passengers could travel first class, second class or third class.

	males rescued		females rescued	
	<i>adults</i>	<i>children</i>	<i>adults</i>	<i>children</i>
1st class	33%			100%
2nd class		100%	86%	
3rd class	16%			

46% of female adults with 3rd class tickets were rescued.

Show this in the table.

3. The Superstore keeps a record of when pets are sold. Here is part of the record.

	Monday		Tuesday		Wednesday		Thursday		Friday	
	am	pm	am	pm	am	pm	am	pm	am	pm
Rabbits	1	1	2	2	1	3	2	2	2	4
Birds	3	1		4	1	4		3	5	
Hamsters					1			1		6
Mice	1			3		2				7
Snakes										1

On Tuesday morning (am), 3 hamsters were sold.

On Thursday afternoon (pm) 1 snake was sold.

Enter this information in the table.

4. Linda is buying a safety helmet.

The 'MB' helmet is available in medium and large sizes.

It is light weight.

It comes in black only and costs £32.95.

Complete the table to show this.

	SIZE			WEIGHT			COLOUR			PRICE
	small	medium	large	extra light	light	medium	black	yellow	purple	
Kid Kap	•				•		•	•		£17.25
Easyrider	•	•	•		•		•		•	£19.95
Cruiser		•	•		•		•	•	•	£27.95
Super S		•	•	•			•			£39.95
Top Shot	•	•			•			•	•	£24.95
MB										

5. The table shows the results of a survey on crisps sold one lunchtime.

Salt and vinegar was the most favourite and **plain** was the least favourite.

6 girls chose **barbecue beef** and 8 boys chose **cheese and onion**.

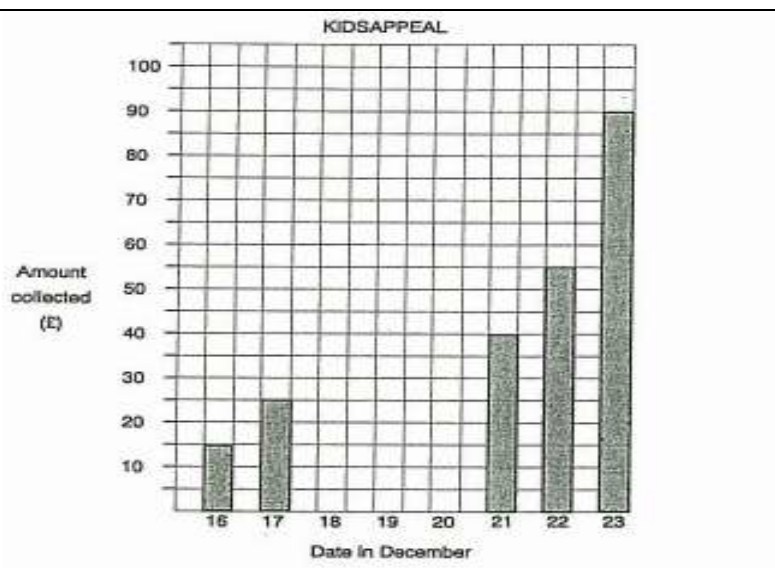
Type of Crisp	Boys	Girls	Total
	9	8	17
	8	7	15
	2	8	10
	7	6	13

Write the missing names of the types of crisps in the table.

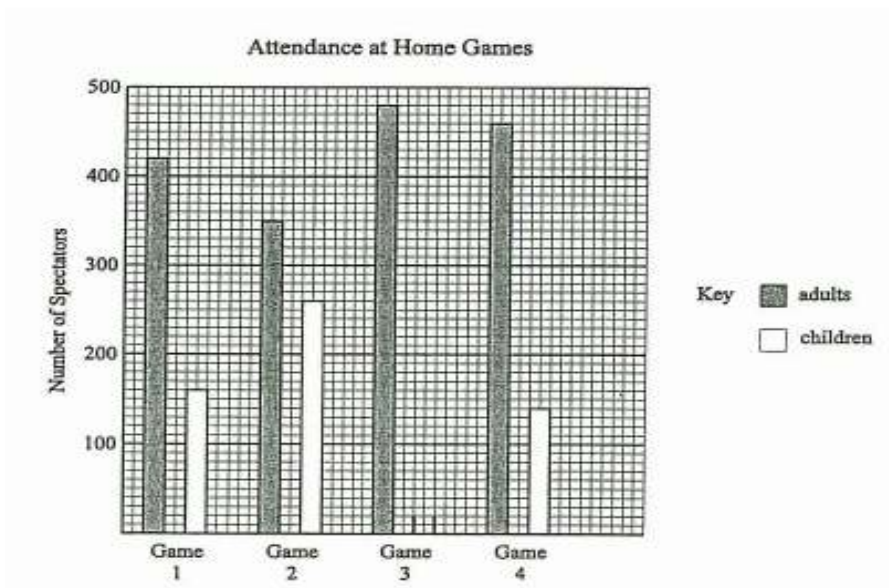
6. Jones' Department Store makes a special Christmas appeal to help the local children. The table shows the amounts collected the week before Christmas to the nearest £5.

Date in December	16	17	18	19	20	21	22	23
Amount collected (£)	15	25	20	35	20	40	55	90

Use the information in the table to complete the bar chart.



7. The bar graph shows the number of adults and children at home games.

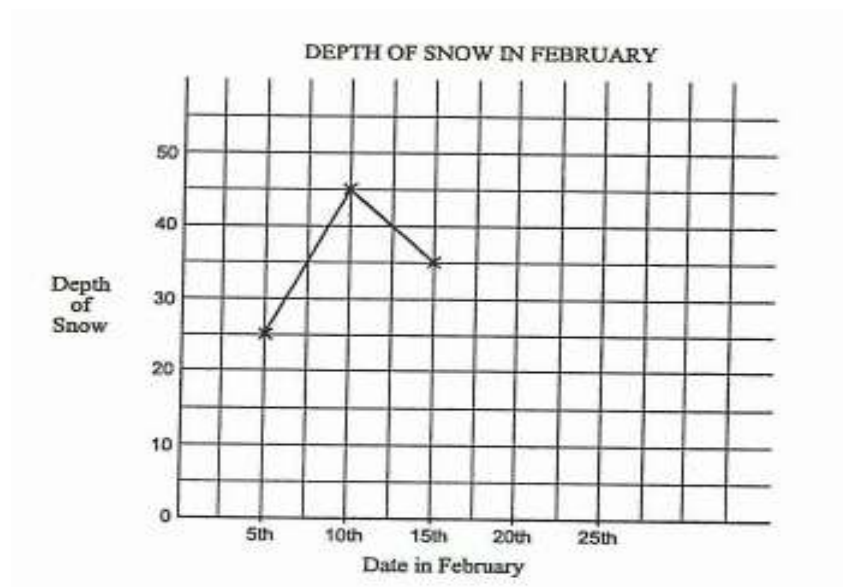


Complete the graph to show that 90 children attended game 3.

8. The table records the depth of snow in Glensnow during February.

Date	Depth of snow in cm
Feb 5th	25
Feb 10th	45
Feb 15th	35
Feb 20th	20
Feb 25th	15

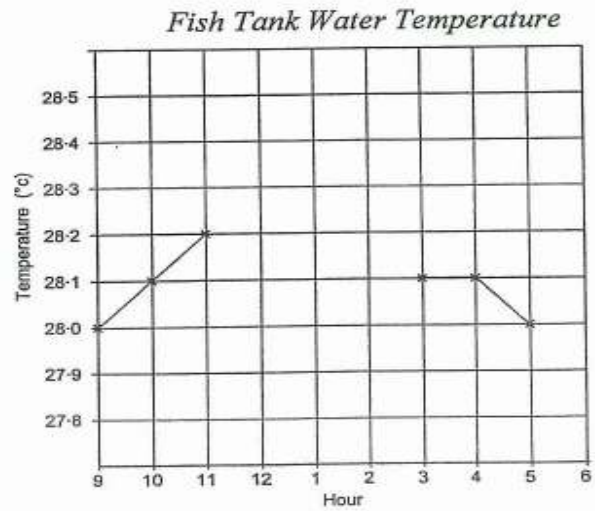
Use the information in the table to complete the line graph below.



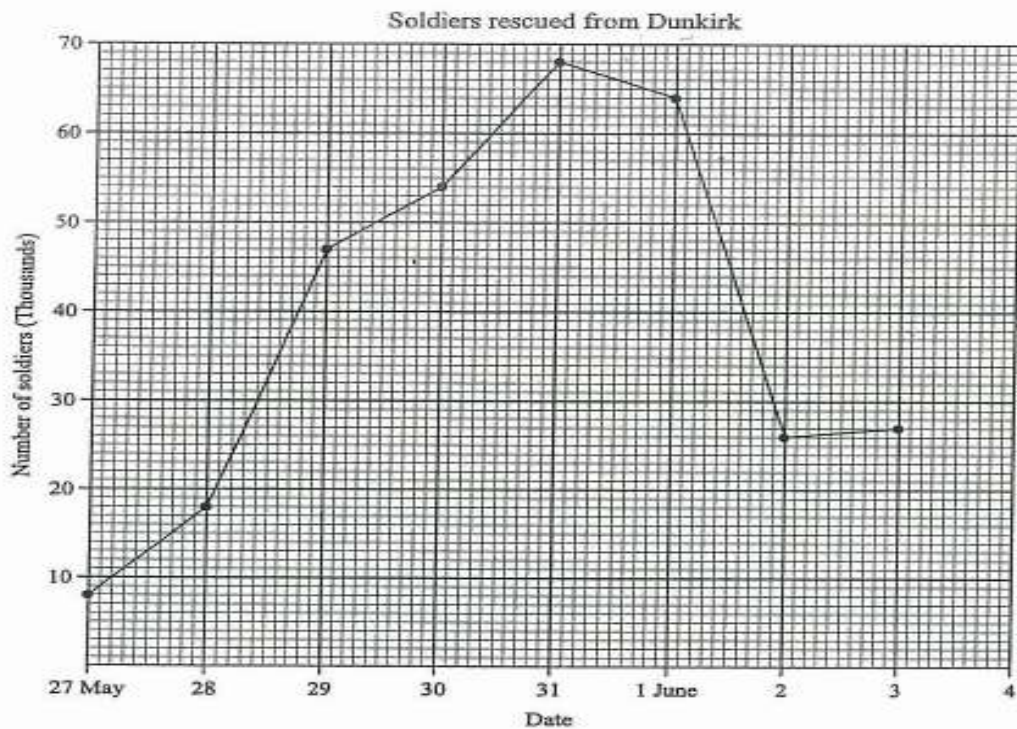
9. Inside the fish tank there is a thermometer which records the temperature of the water each hour.

Hour	Temperature (°C)
09.00	28.0
10.00	28.1
11.00	28.2
12.00	28.4
01.00	28.5
02.00	28.3
03.00	28.1
04.00	28.1
05.00	28.0

Use the information in the table to complete the line graph.



10. The graph shows the number of soldiers rescued in 9 days in World War 2.



26 thousand soldiers were rescued on 4 June.
Complete the graph to show this.

11. Gemma made a table of the main things on which she had spent her money whilst shopping.

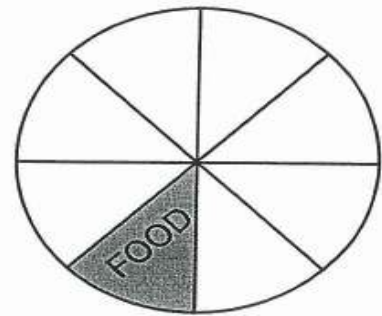
<i>Item</i>	<i>Amount</i>
Presents	£80
Clothes	£40
Food	£20
Decorations	£20
	£160

Complete the pie chart.

Use BLUE for presents.

Use RED for clothes.

Use GREEN for decorations.



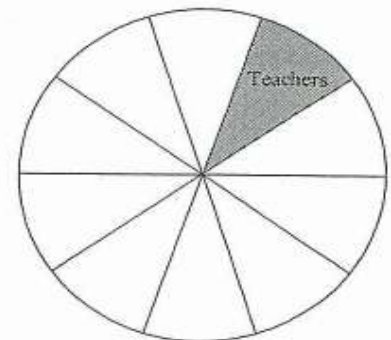
12. Teachers, parents and pupils all took part in a sports gala.

0.1 of the participants were teachers
0.3 of the participants were parents,
the rest were pupils.

Complete the pie chart.

Use the colour blue for parents.

Use the colour red for pupils.



13. A class finds out which night people prefer to celebrate Burns Night.

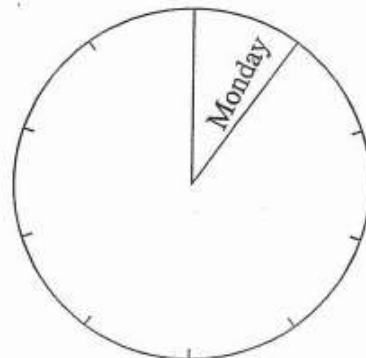
$\frac{1}{10}$ prefer Monday

$\frac{2}{10}$ prefer Tuesday

$\frac{4}{10}$ prefer Wednesday

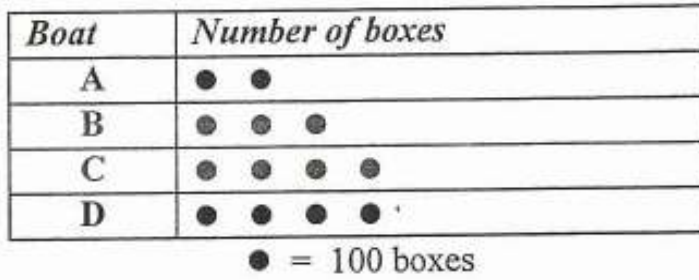
$\frac{1}{10}$ prefer Thursday

$\frac{2}{10}$ prefer Friday



Use this information to complete the pie chart.

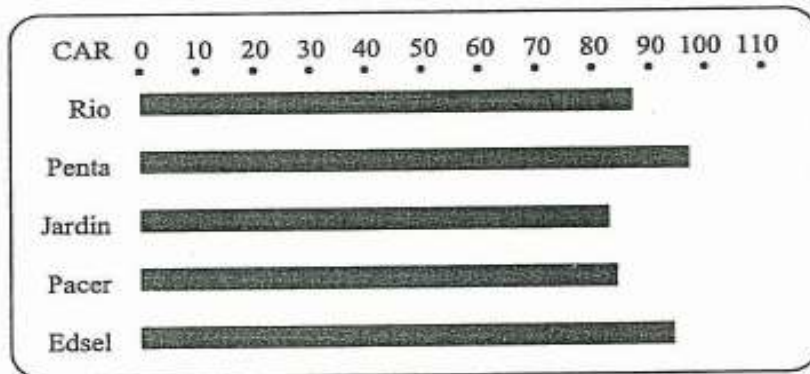
14. A chart on the fish market wall shows the number of boxes of fish each boat caught.



How many boxes of fish did boat B catch?

Answer _____

15. This graph shows how fast some of the cars can go.

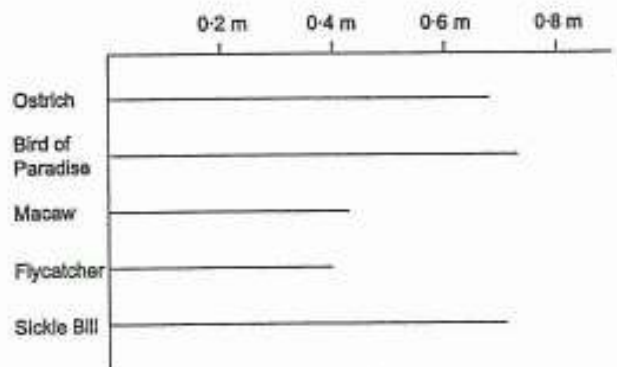


Which cars can go faster than 90 miles per hour?

Answer _____

16. One display shows the length of tail feathers of some birds from different parts of the world.

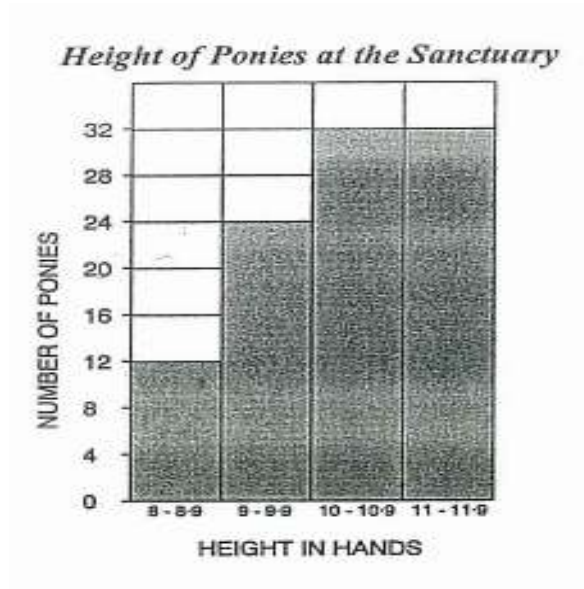
Which birds have tail feathers which are over 0.6 m in length?



Answer _____

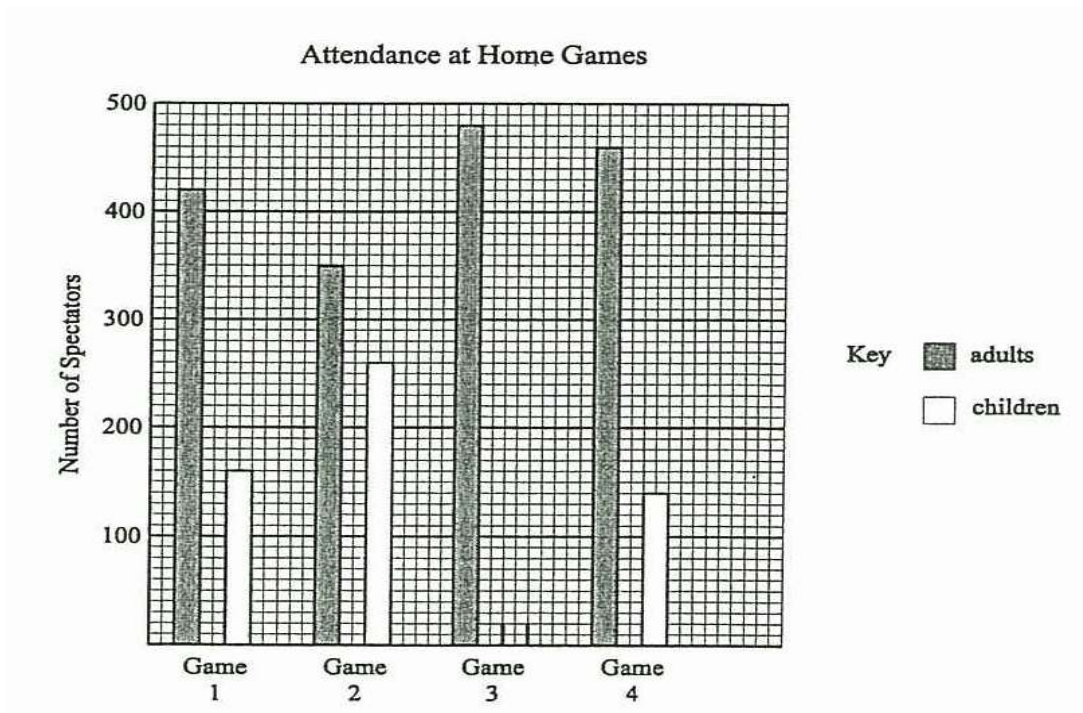
17. Ponies are measured in hands.

How many ponies are taller than 9.9 hands?



Answer _____ ponies

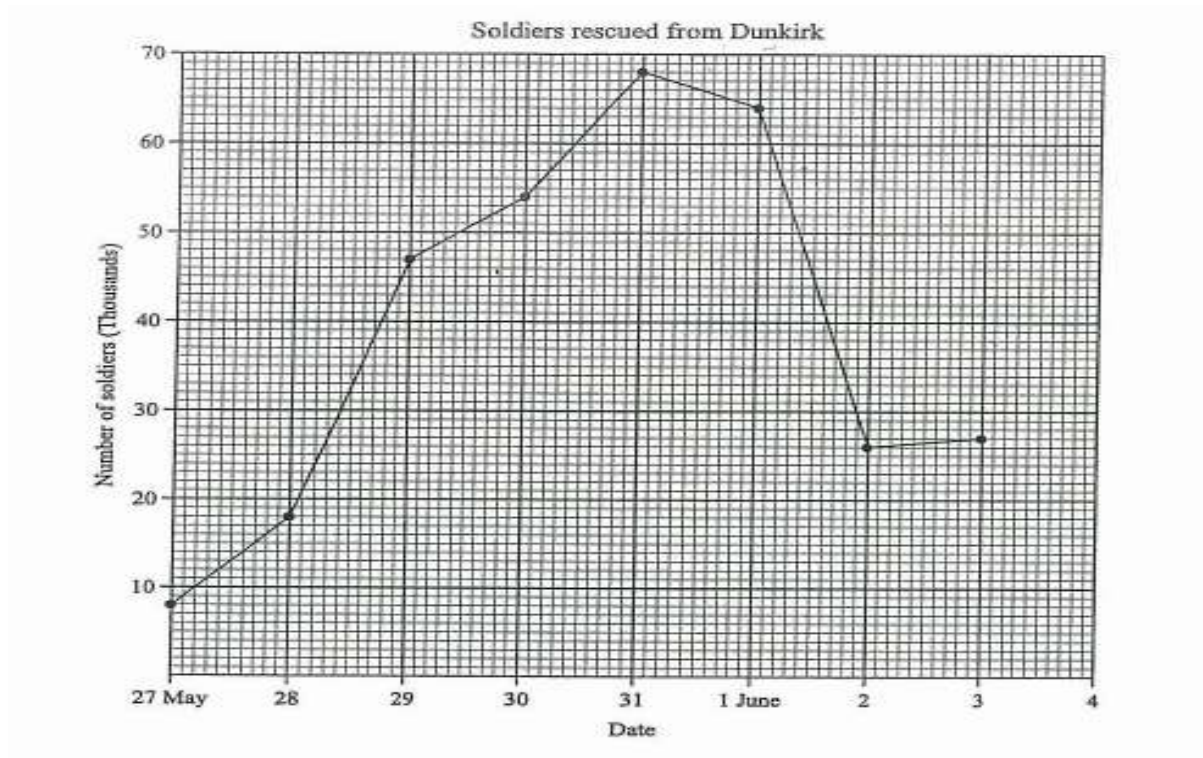
18. The bar graph shows the number of adults and children at home games.



How many more adults than children attended game 2?

Answer _____

19. The graph shows the number of soldiers rescued in 9 days in World War 2.



a. On which day were most soldiers rescued?

Answer _____

b. How many soldiers were rescued on 29 June?

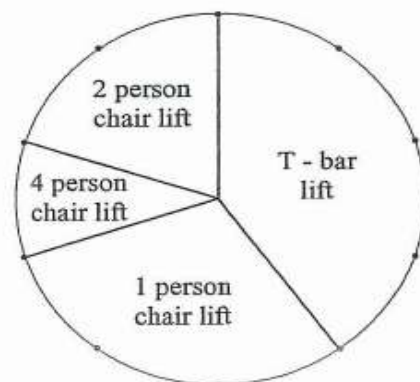
Answer _____ soldiers

20. The pie chart shows the different types of lift in a ski resort.

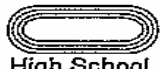




Use the pie chart to match up the fractions with the types of lift.

One arrow has already been drawn in.

- | | |
|---------------------|----------------|
| 1 person chair lift | $\frac{4}{10}$ |
| 2 person chair lift | $\frac{1}{10}$ |
| 4 person chair lift | $\frac{2}{10}$ |
| T - bar lift | $\frac{3}{10}$ |



21. This is the programme of events for a sports gala.

SPORTS GALA PROGRAMME OF EVENTS	
 High School Sports Ground <i>Track Events</i> Monday 1400 - 1600 Tuesday 1900 - 2030 Tuesday 1400 - 1700	 New Tennis Club <i>Tennis</i> Thursday 1500 - 1900 Saturday 1000 - 1600
 Sports Centre <i>Swimming</i> Wednesday 1700 - 2100 Friday 1200 - 1330	 Rovers Stadium <i>Football</i> Thursday 1000 - 1600 Friday 1400 - 1600
 Hockey Friday 1800 - 2130	<i>Mini-marathon</i> Starts: Town Centre Saturday 1300 Finishes: High School Sports Ground

a. Which event starts at the town centre?

Answer _____

b. Which event can you watch at 2 o'clock on Friday afternoon?

Answer _____

22. The table shows how many people were saved and how many people lost their lives when the Titanic sank.

	men		women		children	
	<i>saved</i>	<i>lost</i>	<i>saved</i>	<i>lost</i>	<i>saved</i>	<i>lost</i>
passengers	146	659	296	106	47	62
crew	192	670	20	3	0	0

a. How many women altogether lost their lives?

Answer _____ women

b. How many crew were saved?

Answer _____

23. Gemma is buying a telephone answering machine. She has £60 to spend. Which telephone or telephones could she choose?

Telephone/ Answering Machines	FEATURES				COST
	Cordless	Wall- Mounting Facility	Mercury Button	Last Number Redial	
Dialite	•	•		•	£ 64.00
Phonex	•			•	£ 87.50
Alphacom	•		•		£ 59.99
Simplex		•		•	£ 65.50

Answer _____

24. The table shows the different sizes and number of each type of boot or shoe.

FOOTWEAR STORE								
Size	1	2	3	4	5	6	7	8
Walking Boots	2	2	4	6	10	10	8	8
Sailing Shoes	2	2	3	4	5	6	4	4
Wellingtons	-	1	2	5	4	5	3	3

a. How many pairs of Wellingtons are there altogether?

Answer _____ pairs of Wellingtons

b. 4 pupils each take a pair of size 5 walking boots from the store.
How many pairs of size 5 walking boots are left?

Answer _____ pairs of size five

25. A Pet Superstore keeps a record of when pets are sold.

Here is part of the record.

	Monday		Tuesday		Wednesday		Thursday		Friday	
	am	pm	am	pm	am	pm	am	pm	am	pm
Rabbits	1	1	2	2	1	3	2	2	2	4
Birds	3	1		4	1	4		3	5	
Hamsters					1			1		6
Mice	1			3		2				7
Snakes										1

Over the whole week, what did the Superstore sell most of?

Answer _____

LEVEL D: SHAPE, POSITION AND MOVEMENT

1. Draw 2 diagonals on this rectangle



2. The dotted line marked on the square is

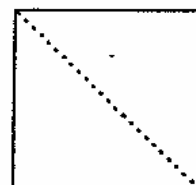
an edge

a vertice

a face

a diagonal

a side



Circle the correct answer.

3a. How many **vertices** has a cube?

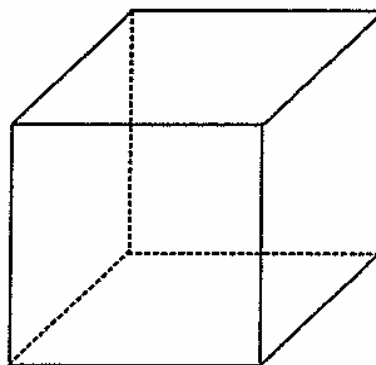
Answer _____ vertices

b. How many **edges** has a cube?

Answer _____ edges

c. How many **faces** has a cube?

Answer _____ faces



4. Underline the statement which is true.

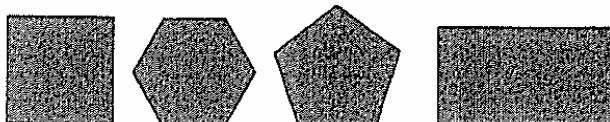
a cuboid has 6 faces and 6 edges

a cuboid has 8 vertices and 6 faces

a cuboid has 12 edges and 6 vertices

a cuboid has 8 faces and 8 edges

5. Tick the pentagon.



6. Underline the name of this shape.

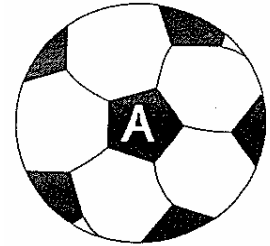
hexagon rectangle pentagon prism



7. The football is made from black and white shapes.
What name is given to the black shape with the letter A inside it?

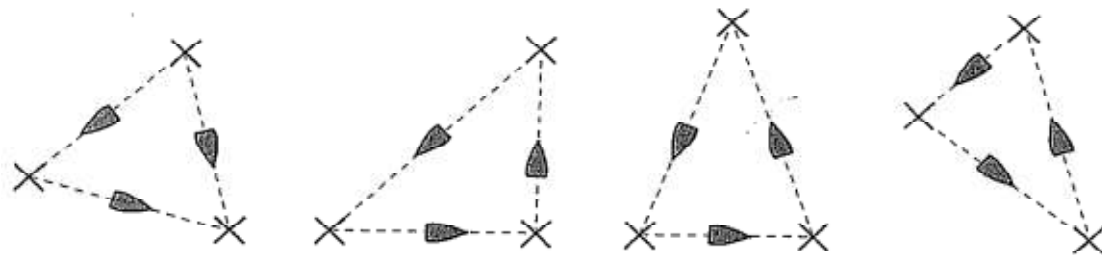
Underline the correct answer.

hexagon pentagon square rectangle

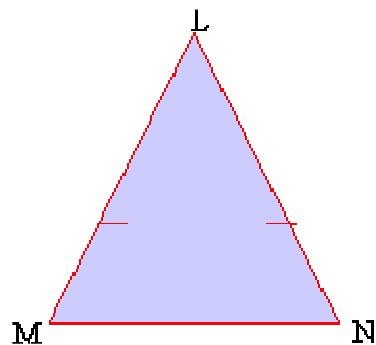


8. Pupils sail the boats round a course. It makes an equilateral triangle.

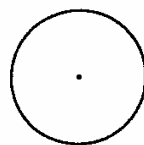
Tick the course below which makes an equilateral triangle.



9. Name this type of triangle.

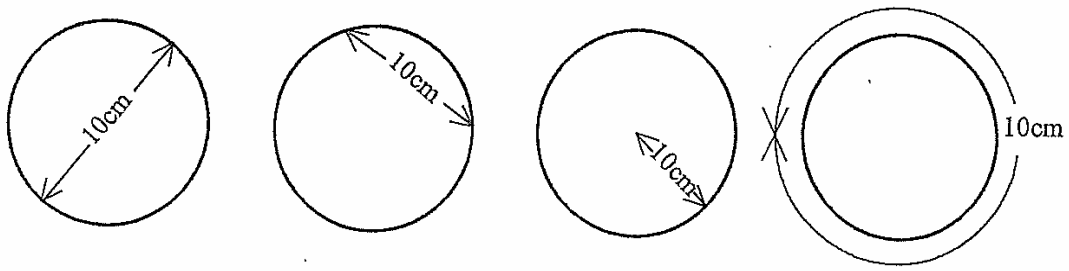


10. Measure the diameter of this circle.

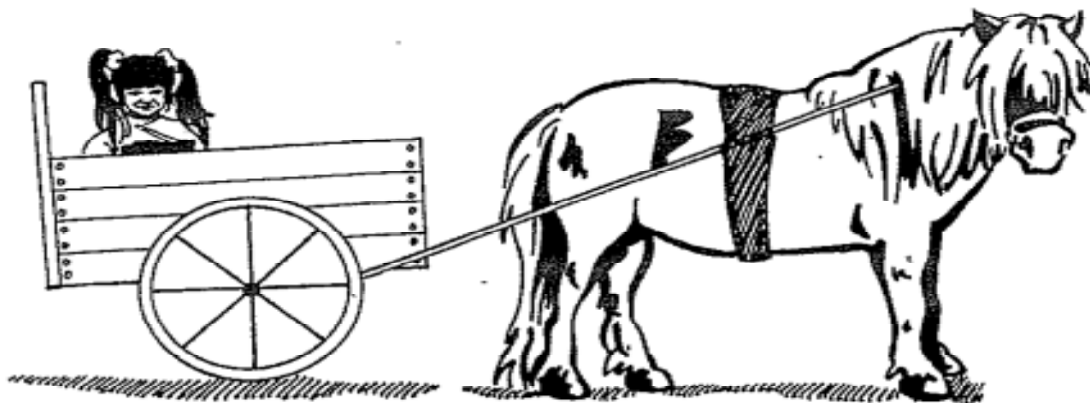


Answer _____

11. Tick the circle below with a radius of 10 cm marked.

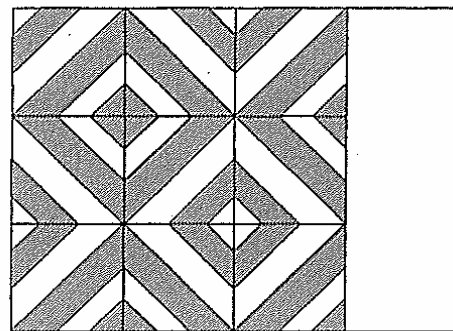


12. Using a coloured pencil, mark the circumference of the wheel.



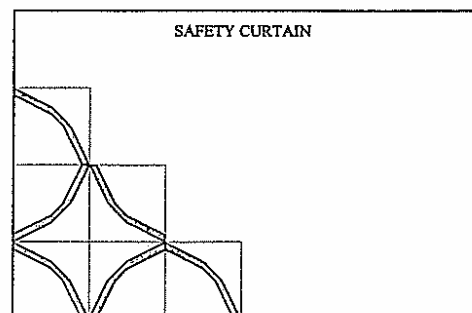
13. A tile pattern looks like this.

Use the tiles you have been given to complete the pattern.

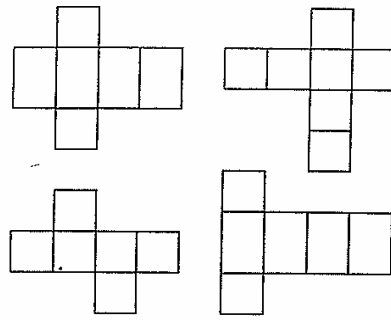


14. The curtain is decorated with a pattern.

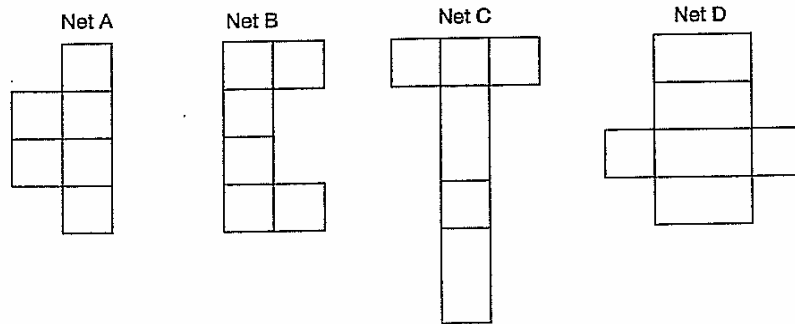
Continue the pattern by adding 4 more tiles.



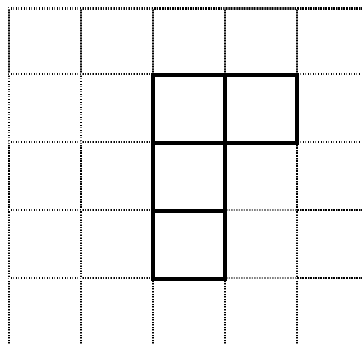
15. Tick the net which would make a **cube**.



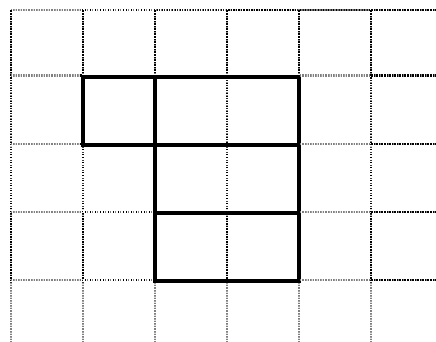
16. Tick the net which make a **cuboid**.



17. Complete the net of the cube on the grid.

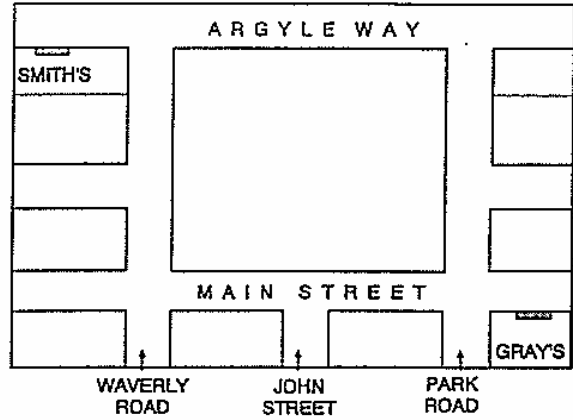


18. Complete the net of the cuboid on the grid.



19. Gemma goes from Smith's to Gray's to collect the turkey.

Describe the directions for the journey.

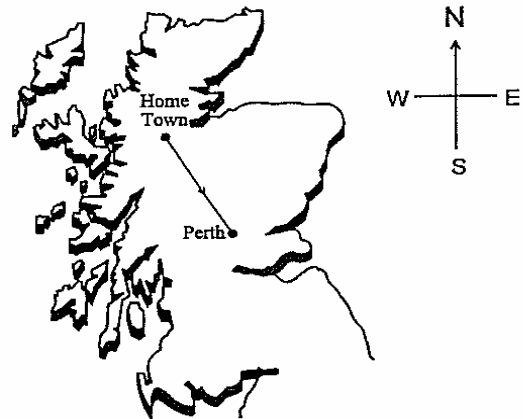


Answer _____

20. The bus travels to Perth in the direction shown on the map.

Circle the direction in which the bus travels.

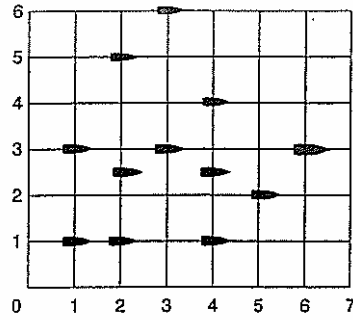
NW SW SE NE



21. What is the compass direction of HMS Hood from the Bismarck?

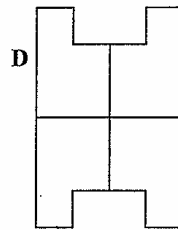
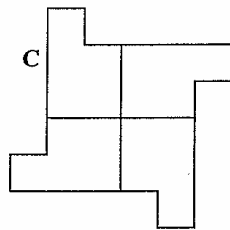
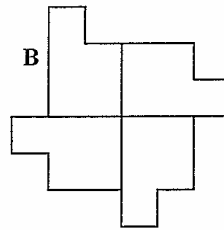
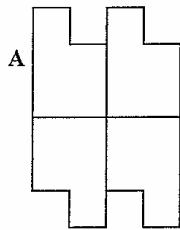
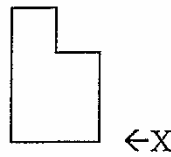


22. Circle the ship at (2, 5).



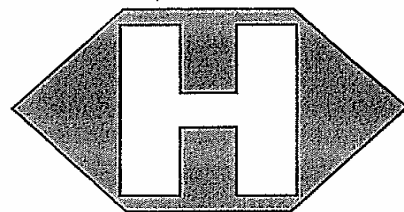
23. This shape is rotated 3 times through 90° about the point X.

Tick the pattern below which it will make.

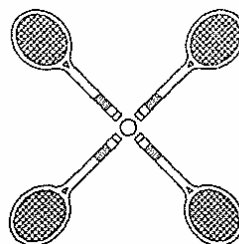


24. Draw **all** the lines of symmetry on the logo.

Use your ruler.

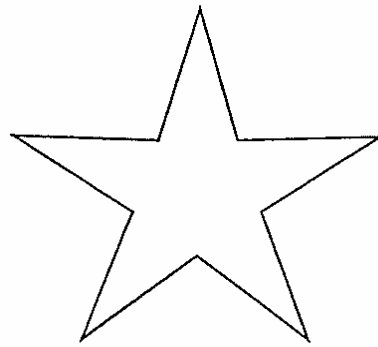


25. This tennis events symbol has _____ lines of symmetry.



26. Draw **all** the lines of symmetry on the star.

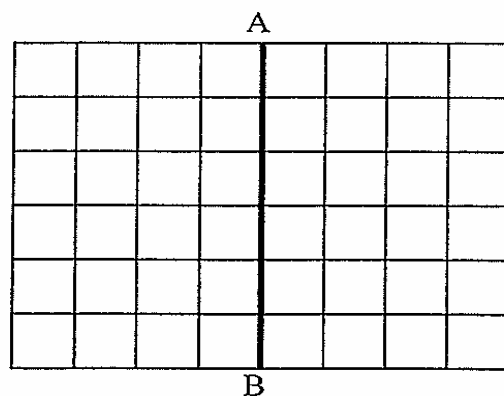
Use your ruler.



27. The pattern in the centre of their carpet is symmetrical.

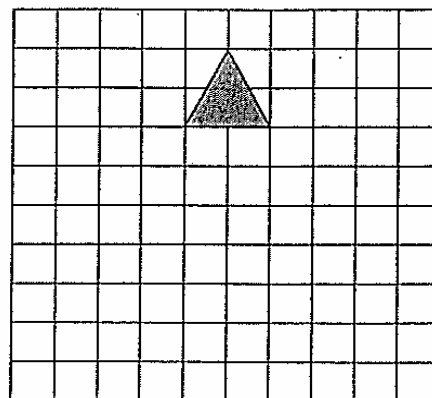
Draw a symmetrical design on the grid.

Make AB a line of symmetry.

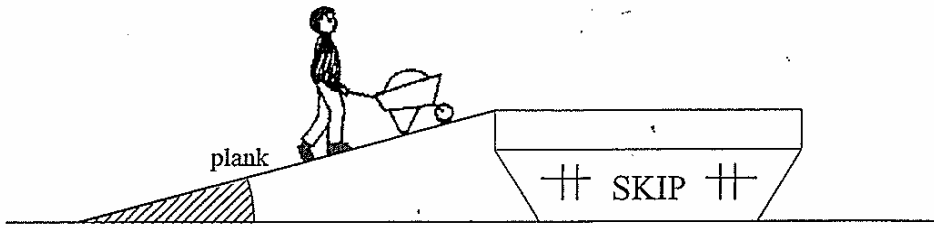


28. Draw a symmetrical star on the grid.

One point has already been drawn.



29. What angle does the plank make with the ground?
Measure the shaded angle.



30. Draw an angle of 15° at point A.



31. A plane was flying South West.
Along which 3 figure compass bearing was the plane flying?

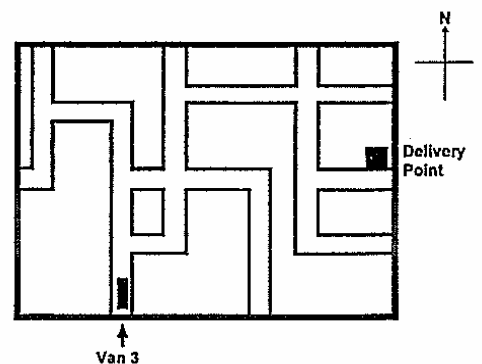
045° 135° 225° 315°

Underline the correct answer.

32. Estimate the bearing of the **delivery point** from the **van**.

010° 105° 270° 070° 235°

Underline the best estimate.



Tiles

