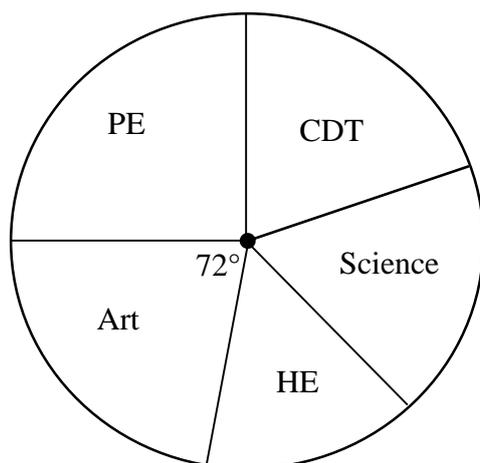


Leith Academy Maths Department
National 4 Numeracy
Practice Assessment 3

- 1) A man buys a TV on hire purchase by paying a deposit of £120 and then 8 equal payments of £85. How much does he pay in total for the TV?
- 2) A woman buys a laptop on hire purchase by paying a deposit of £62 and then 14 equal payments of £27. How much does she pay in total for the laptop?
- 3) A man buys a car on hire purchase by paying a deposit of £950 and then 48 equal payments of £185. How much does he pay in total for the car?
- 4) Two shops are selling the same fridge freezer with different deals. Shop's 1 deal needs a £75 deposit and then 5 equal payments of £65.50. Shop's 2 deal needs a deposit of £55 and then 6 equal payments of £48.75. Which shop offers the cheaper deal?
- 5) A survey was taken to find the favourite class subject of 900 pupils and the results are shown in the pie chart below.



How many pupils voted Art as their favourite subject?

- 6) The table shows the different prices you can pay for a train ticket.

Standard		Standard Premier		Business Premier
Non-flexible	Semi-flexible	Non-flexible	Semi-flexible	Fully flexible
£154	£163	£179	£195	£245

How much for a semi-flexible standard premier ticket?

7) The table shows some world records.

Event	Gender	Record
100m	Men	9.58s
	Women	10.49s
200m	Men	19.19s
	Women	21.34s
400m	Men	43.18s
	Women	47.60s
High Jump	Men	2.45m
	Women	2.09m
Long Jump	Men	8.95m
	Women	7.52m
Shot Put	Men	23.12m
	Women	22.63m
Discus Throw	Men	74.08m
	Women	76.80m
Javelin Throw	Men	98.48m
	Women	72.28m

- a) What is the world record for the women's 400m?
b) What is the difference between the world records for men and women at the Discus Throw?
c) Which event is the world record for women faster/longer than the world record for men?

8) Two different clubs are offering a few of their members the opportunity to go a dinner dance. The members will be chosen at random.

Club One has 134 members and 8 dinner dance tickets.

Club Two has 155 members and 11 dinner dance tickets.

In which club does a member have the better chance of being selected to go?
Give a reason for your answer.

9) The probabilities of three different types of drug being effective on a patient are shown below.

$$\text{Drug A: } \frac{26}{30}$$

$$\text{Drug B: } \frac{12}{14}$$

$$\text{Drug C: } \frac{19}{23}$$

Which drug has the greater chance of being effective?
Give a reason for your answer.

10) The probabilities of it raining one day in four different cities are shown below.

Cairo: 8%

Los Angeles: 0.07

Beijing: $\frac{5}{72}$

Tokyo: 1 in 13

In which of the four cities is it least likely to rain?

Give a reason for your answer.