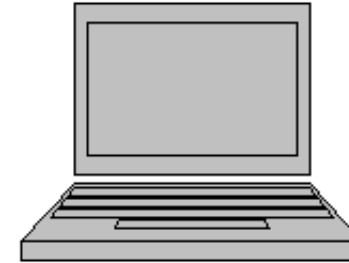


Name: _____

Practice Assessment tasks

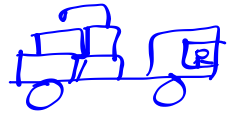
- 1 John bought a new HD laptop. The price was £340 + VAT.
VAT is charged at 20%. What was the total price?



$$20\% \text{ of } £340 = 340 \div 100 \times 20$$
$$= £68$$

$$\text{Price} = £340 + £68$$
$$= \underline{\underline{£408}}$$

- 2 An empty lorry has a weight of 2800 kg.
When five pipe sections are put onto the lorry, it has a weight of 8300 kg.
What is the weight of one pipe section?



$$2800\text{kg} + \dots = 8300\text{kg}$$

$$8300 - 2800 = 5500\text{kg}$$

$$5500\text{kg} \div 5 = \underline{\underline{1100\text{kg}}}$$

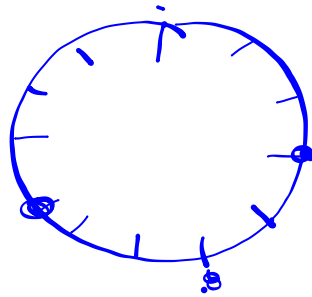
- 3 Yvonne is going to Disneyland in Florida. How much currency will she get for £850 when the exchange rate is 1.63 dollars to a pound?

$$850 \times 1.63 = 1385.50 \text{ dollars}$$

4 Complete the following table which shows departure and arrival times for different train journeys.

Depart	Arrive	Time taken
1825	2310	4h 45min
0640	10:15	3h 35 min
21:20	0200	4h 40 min

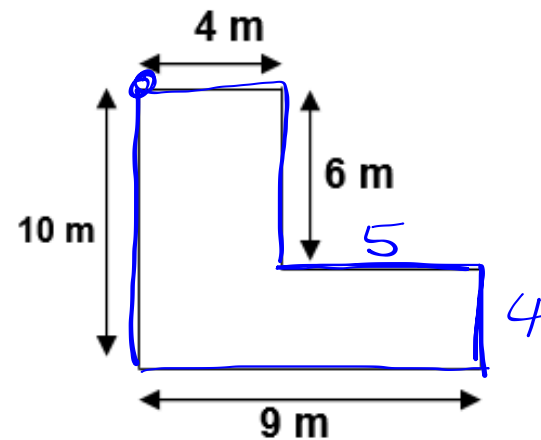
01:20



07:15

35 min
4h 10 min +

- 5 The diagram shows an allotment which is made up of two rectangles.



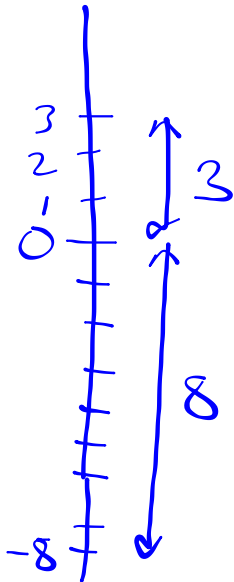
The owner bought 35 m of fencing which is to go all round the edges of the allotment. Is the fencing long enough?

Justify your answer.

$$P = 4 + 6 + 5 + 4 + 9 + 10$$
$$= 38 \text{ m}$$

So it's not enough (need another 3 m).

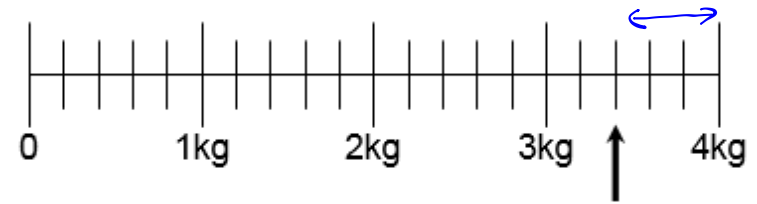
- 6 Overnight the temperature dropped from 3°C to -8°C .
By how many degrees has the temperature dropped?



$$\underline{\underline{11^{\circ}\text{C}}}$$



- 7 A workman needs 4 kg of cement.
He mixes some up and weighs it on a set of scales.
The reading is shown on the right.
How much more cement does he need to mix?



$$4 - 3.4 = \underline{\underline{0.6 \text{ kg}}}$$

~~3.2~~
3.4 kg

8

Two shops are selling the same model of washing machine.
They are offering these for sale with different deals.

Which shop has the cheaper deal?
Justify your answer by calculation.

Shop A Deposit £50 Six payments of £43.40
Shop B Deposit £120 Six payments of £32.05

$$\begin{aligned} \textcircled{A} \\ \text{Cost} &= 50 + 6 \times 43.40 \\ &= \underline{\underline{\pounds 310.40}} \end{aligned}$$

\therefore A is cheaper

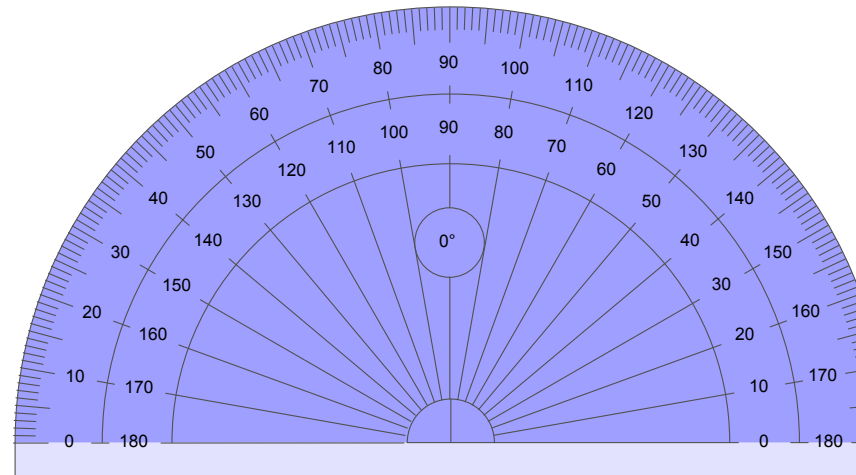
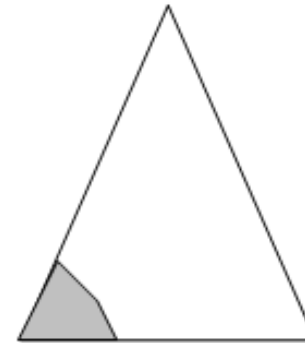
$$\begin{aligned} \textcircled{B} \\ \text{Cost} &= 120 + 6 \times 32.05 \\ &= \underline{\underline{\pounds 312.30}} \end{aligned}$$

- 9 Here is an isosceles triangle.
(a) Measure the length of the shortest side.

3.0cm or 3.1cm

- (b) Measure the size of the shaded angle.

65°



- 10 The guidance department are organising a visit for the senior pupils to 'Safe Drive, Stay Alive' in Aberdeen. They need to hire buses for 200 pupils. A bus company offers two sizes of bus:
Size A 45 seats Price £240 **Size B 16 seats Price £100**
The group wants to pay the lowest total hire charge available.
How many buses of each size should they hire? How much will this cost?

$$5 \text{ size A} : £240 \times 5 = £1200$$

$$13 \text{ size B} : £100 \times 13 = £1300$$


$$\textcircled{A} \quad \underline{\underline{4 \text{ size A} + 2 \text{ size B}}} = £240 \times 4 + £100 \times 2 \\ = \underline{\underline{£1160}}$$

- 11 The 210 pupils in S1 were asked how often they visited the school canteen. The results are displayed in the pie chart. How many pupils said they visited the canteen most days?

$$\frac{60}{360} \text{ of } 210 = \underline{\underline{35}}$$



- 12 The table below shows the amount of yearly interest a selection of banks will pay to a customer on savings.



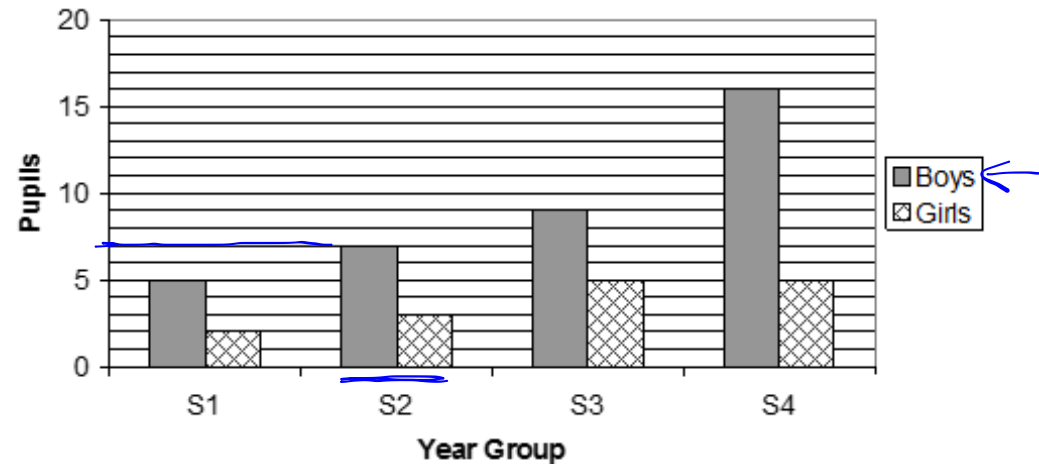
Bank	Less than £500	Between £500 and £2000	More than £2000
A	0.3%	1.1%	1.9%
B	0.4%	1.5%	1.7%
C	0.05%	0.8%	1%
D	0.7%	1.7%	2.1%

For a savings amount of £1800, which bank would pay the most interest?

D

- 13 The school conducted a survey on a Wednesday morning to establish the number of pupils arriving late. The compound bar chart below gives the results of the data collected.

Number of Late Pupils



- (a) How many S2 boys were late that day? 7
- (b) Compare the trend in the number of lates by both boys and girls across the year groups.

In each year group, more boys than girls were late.
 → As they get older, more boys and girls are late.

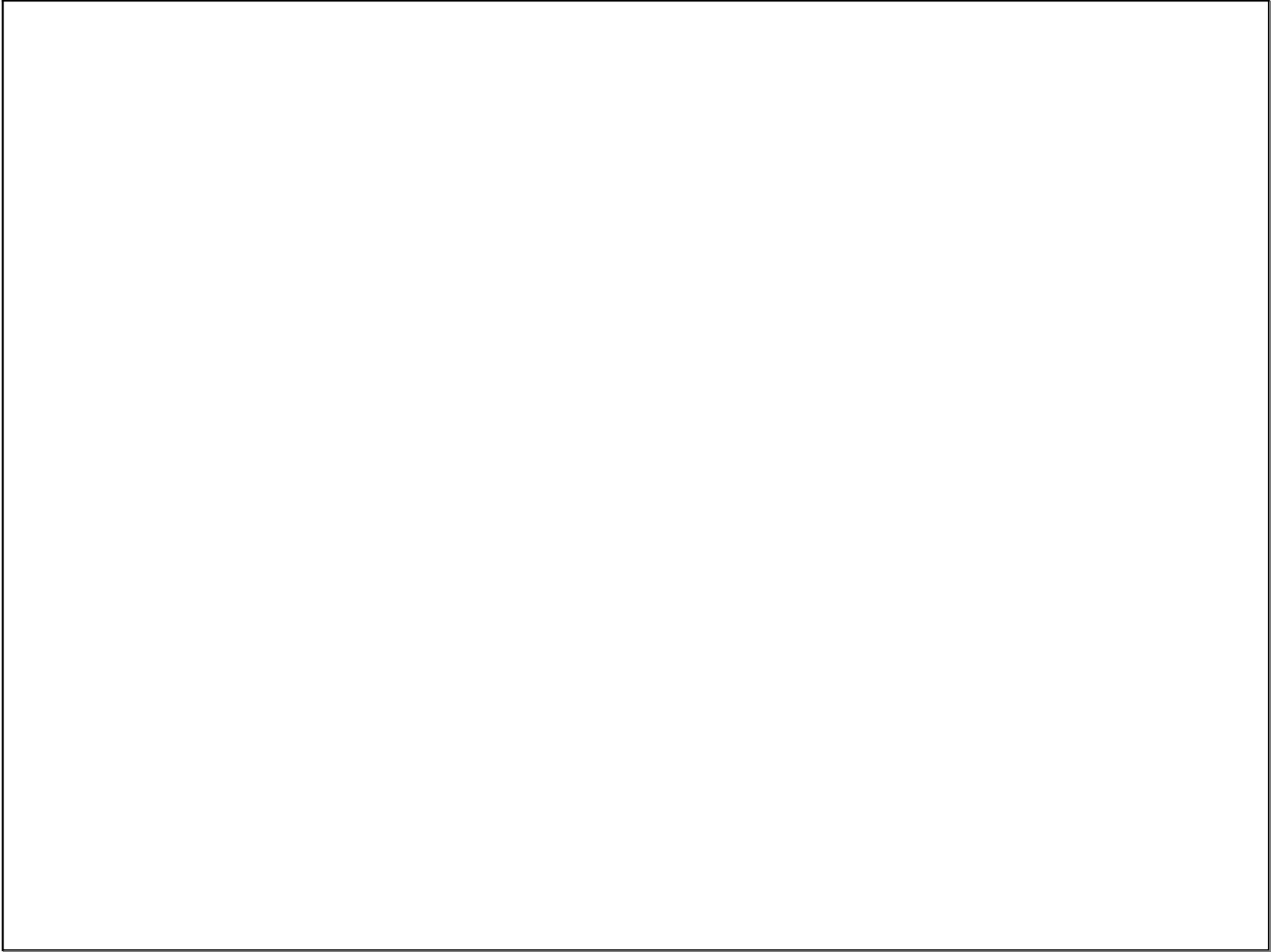
- 14 Three mobile phone companies each have a contract available at the same price.

	Company A	Company B	Company C
Calls (minutes)	50	100 ✓	200 ✓
Texts	unlimited ✓	500 ✓	200
Internet (Mb)	500 ✓	200 ✓	200 ✓

Amina is looking for a mobile phone contract which will give her 90 minutes of calls, 400 texts, and 150Mb of internet use.

Which company's plan would be best for her?

Company B because it satisfies all her conditions.



Feb 7-11:39