

Booster Pages KS2



Reading Scales

Level 3/4

Number of practice sheets: 8

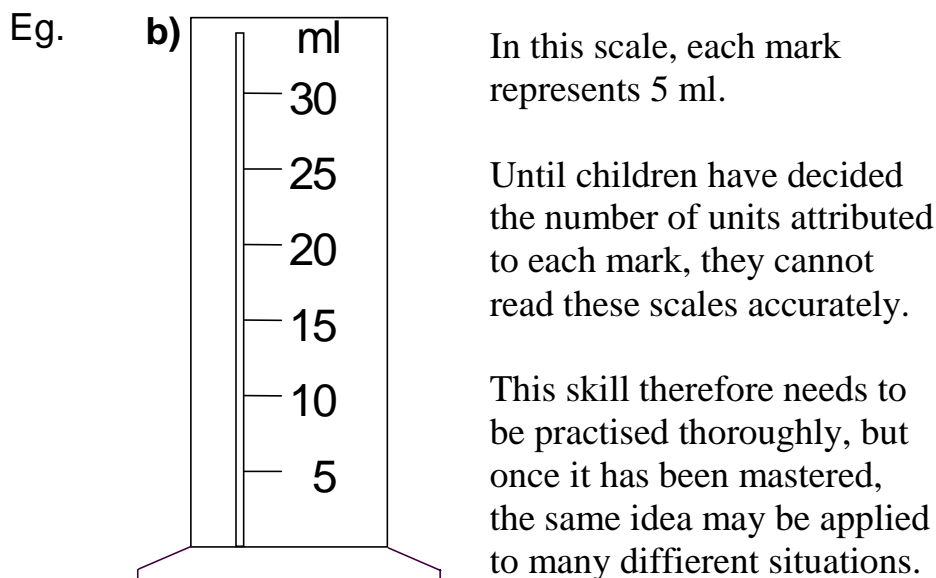
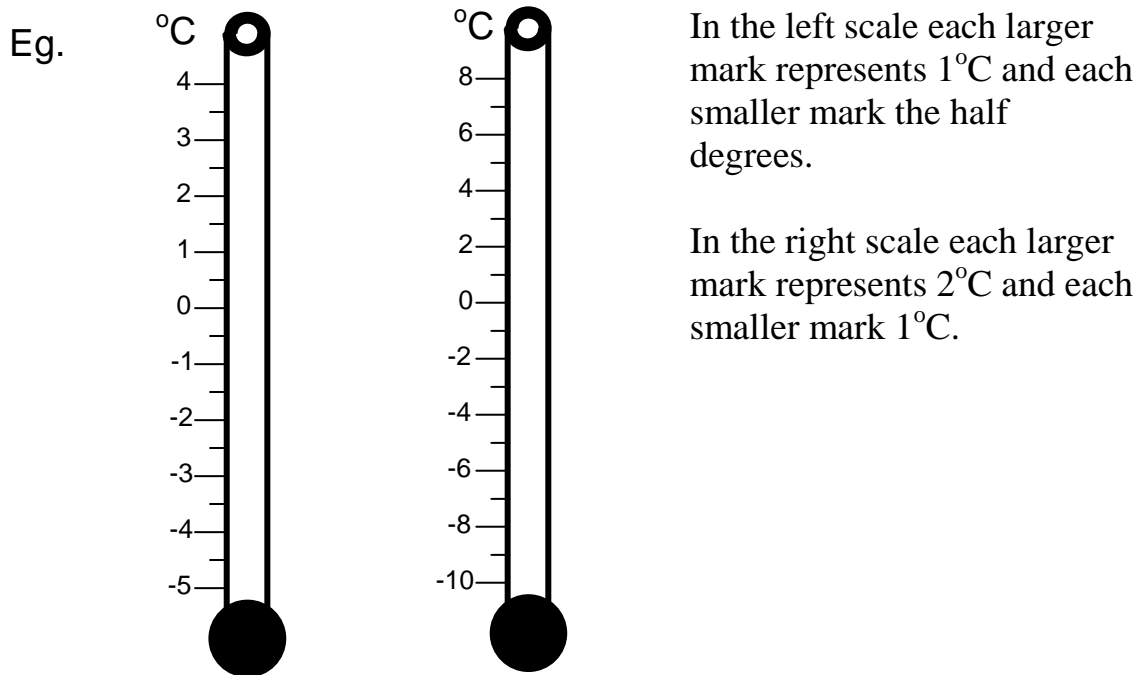
MathSphere

© MathSphere P.O. Box 1234 Worthing BN14 7YX www.mathsphere.co.uk

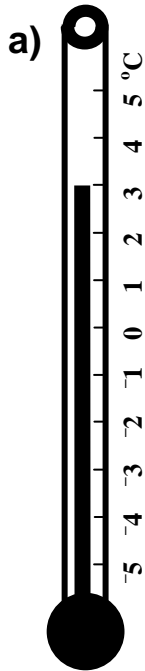
Notes

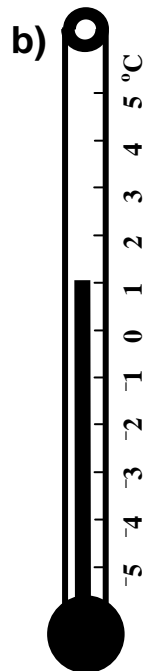
Questions in this module are concerned with reading scales on measuring devices such as thermometers, measuring cylinders and weighing scales.

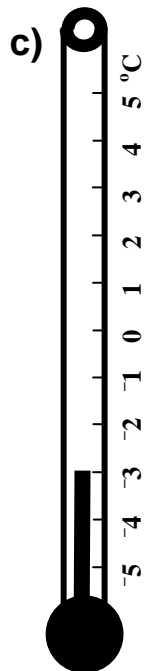
Whatever the instrument, the basic principle is the same: **it is most important that children look at the scale to see how many units one division represents.**

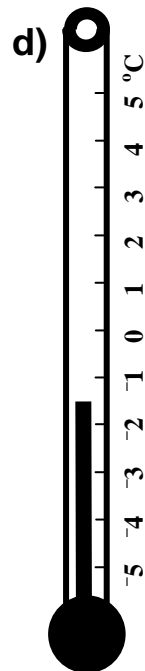


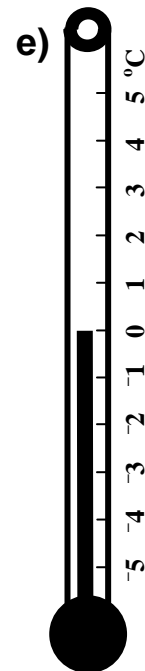
1. Write down the temperatures on these thermometers.











2.



London



Edinburgh

These thermometers show the temperatures in London and Edinburgh on one day last year.

a) What was the temperature in London?

b) What was the temperature in Edinburgh?

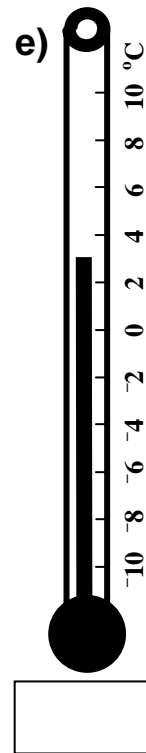
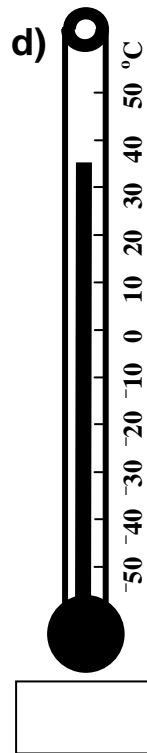
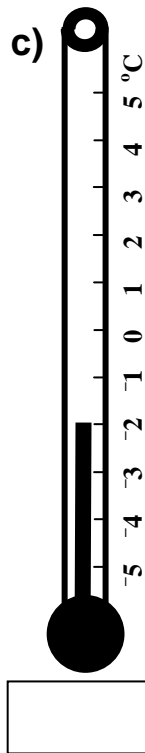
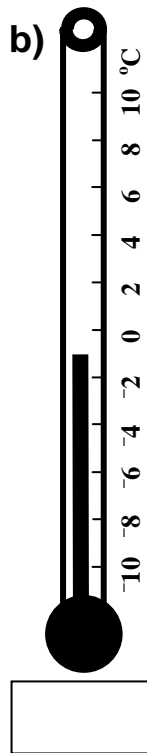
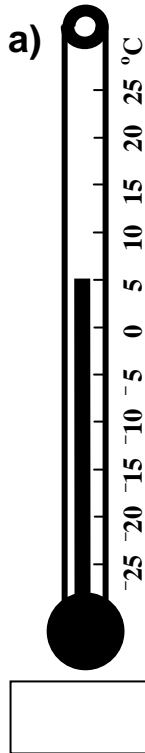
c) How many degrees warmer was it in London than in Edinburgh?

d) Glasgow was 5°C cooler than Edinburgh.

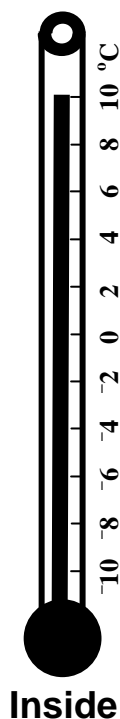
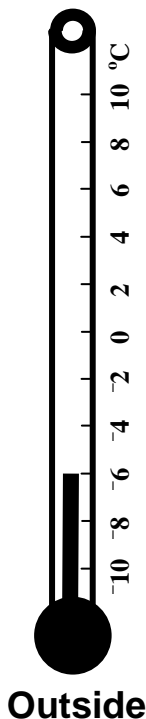
What was the temperature in Glasgow?

1. Write down the temperatures on these thermometers.

Remember to look at the scales very carefully.



2.



A climber measured the temperature outside and inside his tent.

a) What was the temperature outside?

b) What was the temperature inside?

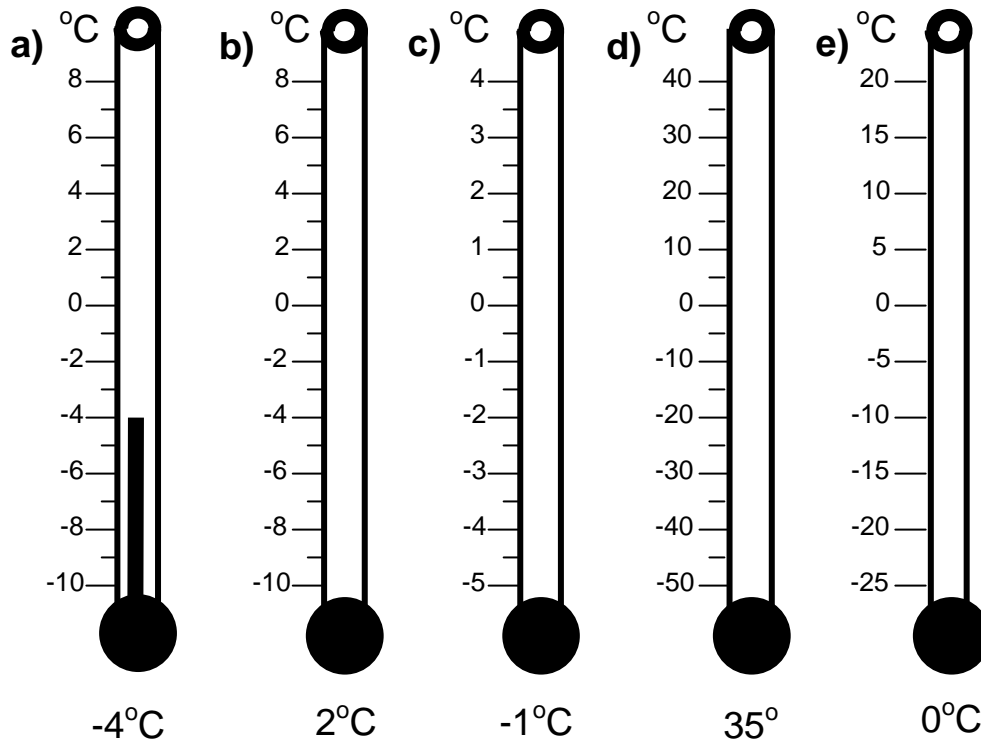
c) What was the difference between the two temperatures?

d) The climber's body temperature was **38°C**.

How much warmer was his body than the outside temperature?

1. Use a ruler to draw a bar on the thermometers to represent the temperatures. The first one has been done for you.

Remember to look at the scales very carefully.



2. The temperature in New York is 12°C . The temperature in Washington is 12°C cooler.

What is the temperature in Washington?

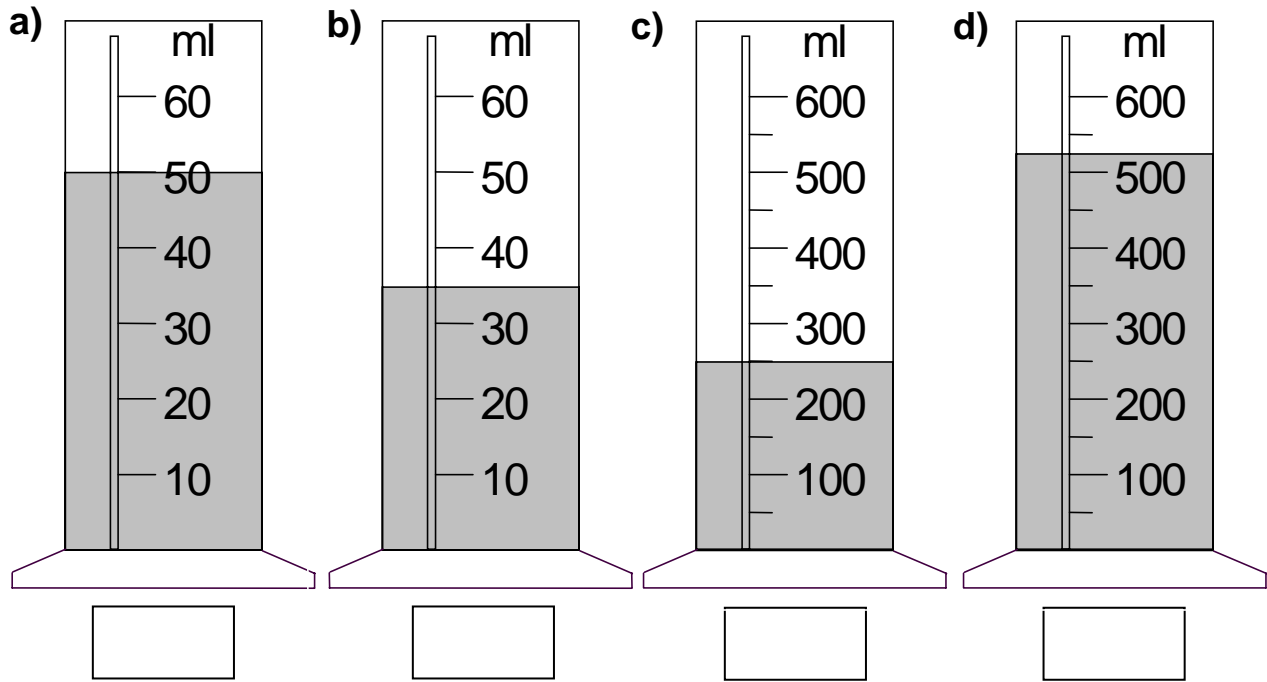
3. The temperature in a freezer is 48°C cooler than in the kitchen. If the temperature in the kitchen is 21°C , what is the temperature in the freezer?

4. The temperature in a garden in the middle of winter is -12°C . The temperature in a bedroom is 25°C warmer than the garden. The temperature in the kitchen is 9°C warmer than the bedroom.

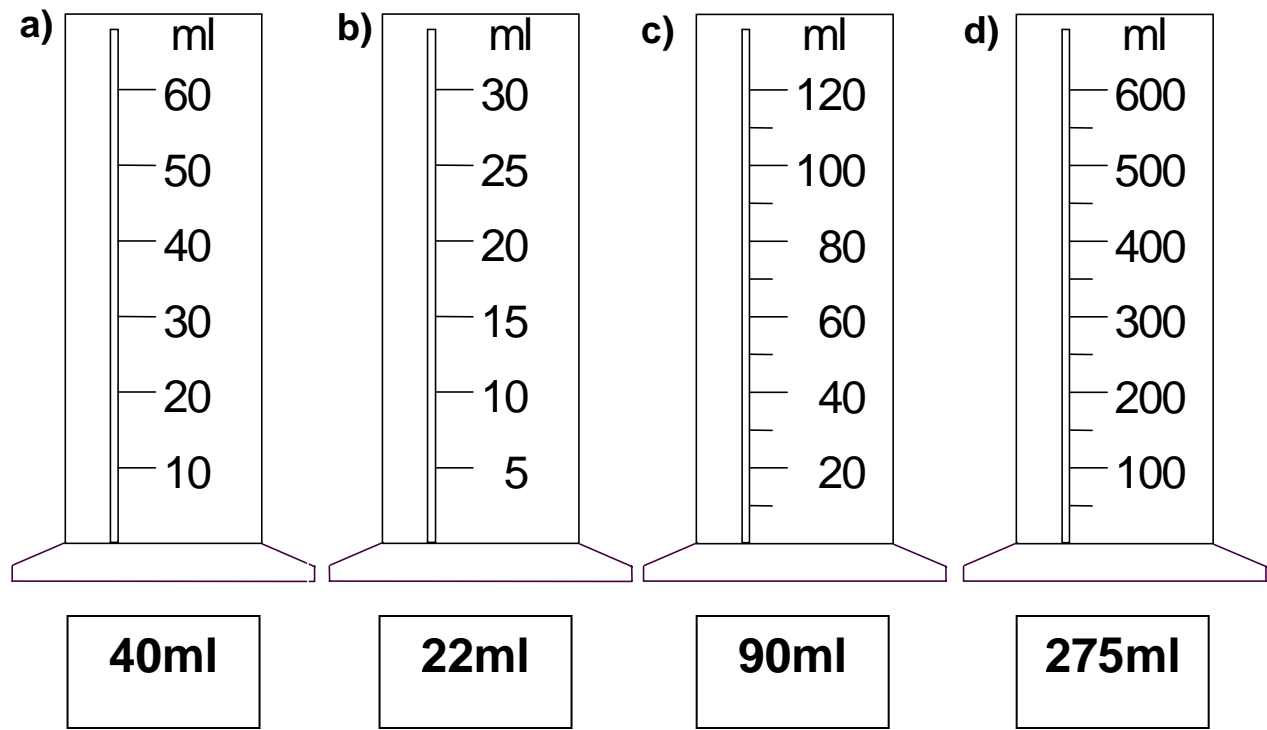
What is the temperature in the kitchen?

1. Read the volumes on the measuring cylinders.

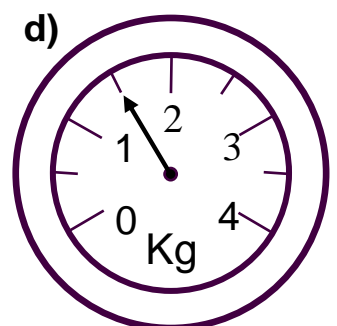
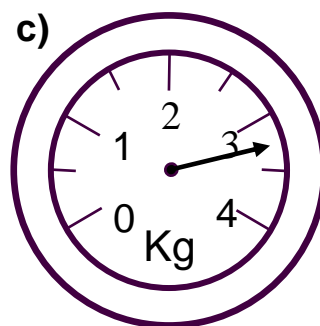
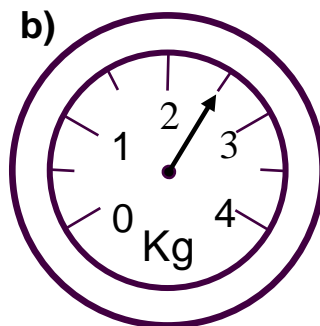
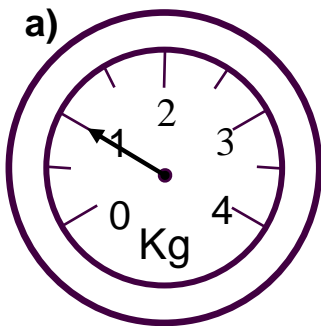
Anyone for a swim? (I hope that's water!)



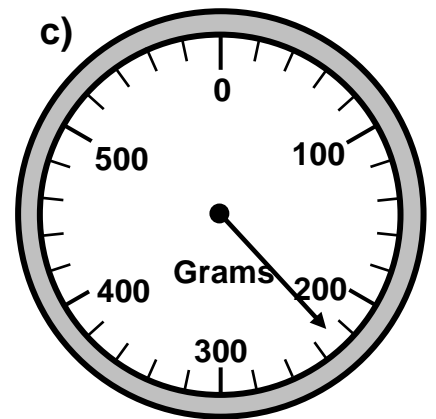
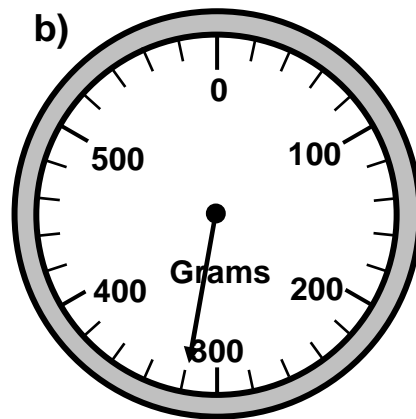
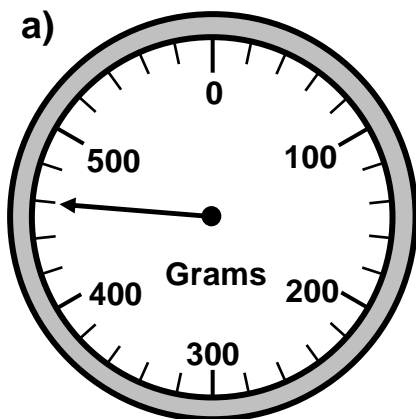
2. Draw the correct amount of water in the measuring cylinders.



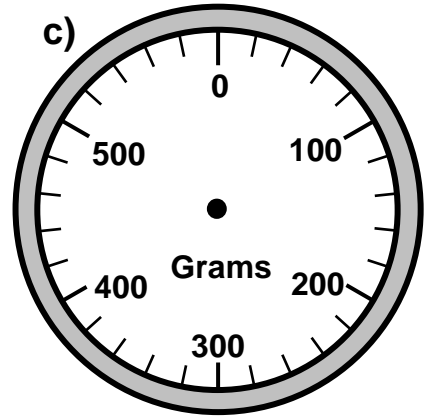
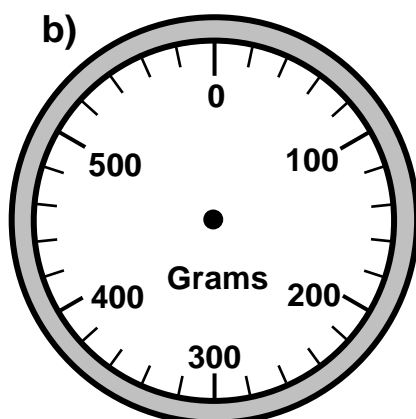
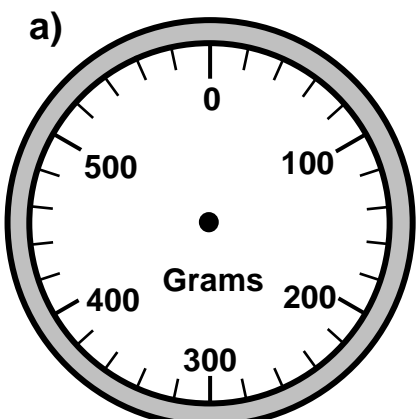
1. Read these scales and write the weights underneath.



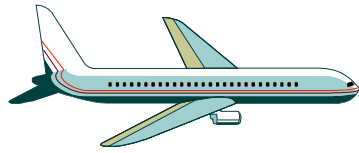
2. Read these scales and write the weights underneath.



3. Draw the hand on each scale to show the correct weight.

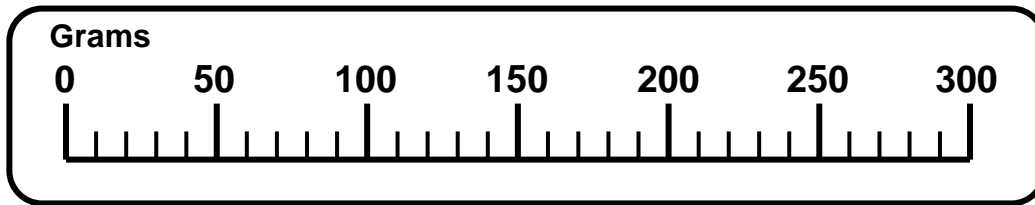


1.



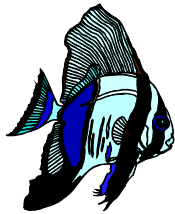
This model plane weighs **240g**.

Draw an arrow on the scale to show **240g**.

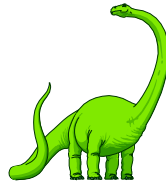


2. Shelley has a model fish and a model dinosaur.

The fish has a mass of **170g** and the dinosaur has a mass of **75g**.

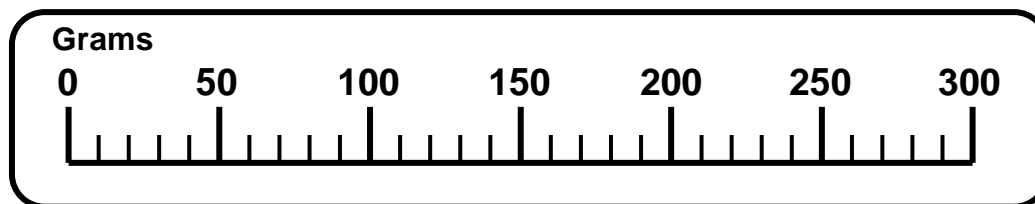


170g

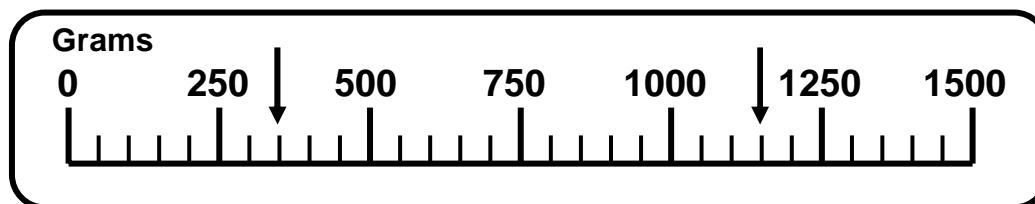


75g

Draw an arrow on the scale below to show their total weight.



3. What is the difference between the two masses shown on this scale?

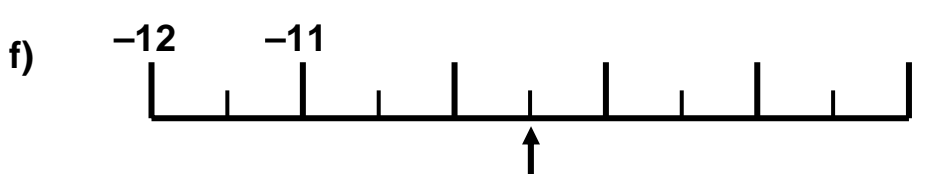
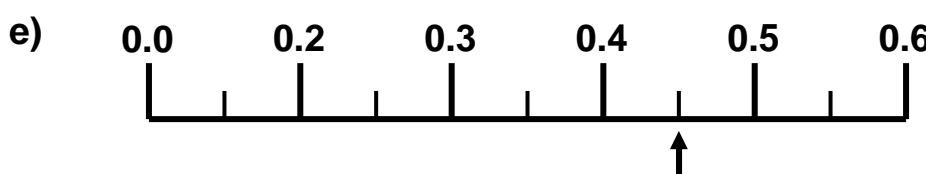
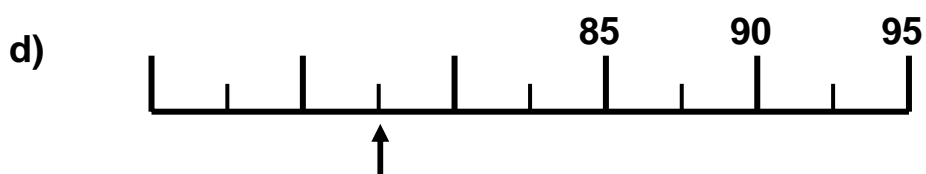
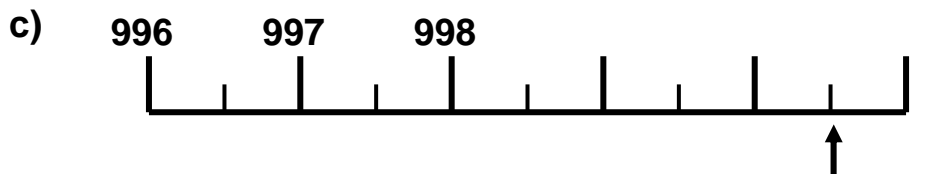
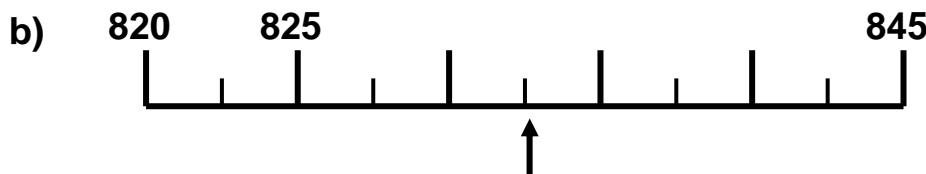
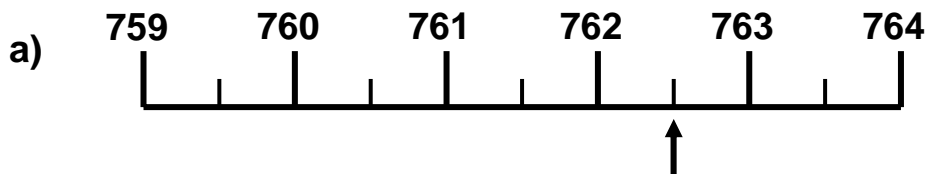


1. In each of these diagrams, write the number shown by the arrow.

Don't forget, guys, the clue is to look carefully at the scale.

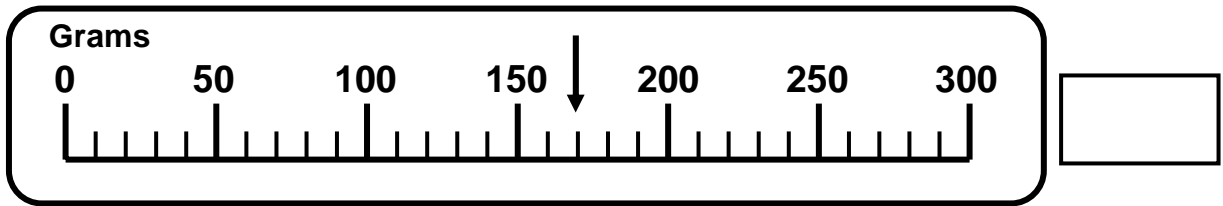


What more can we say?

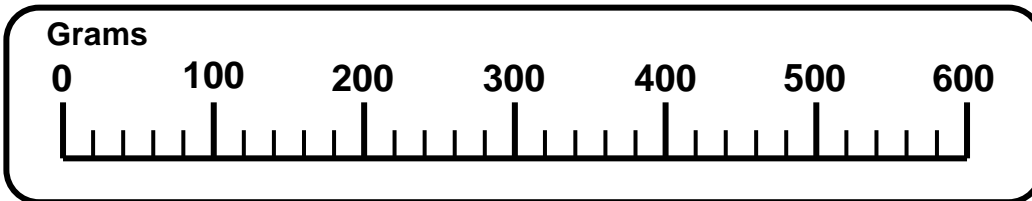


Chef in restaurant: "Had you had this before, sir?"
Man: "Yes."
Chef: "Well, you've got it again!"

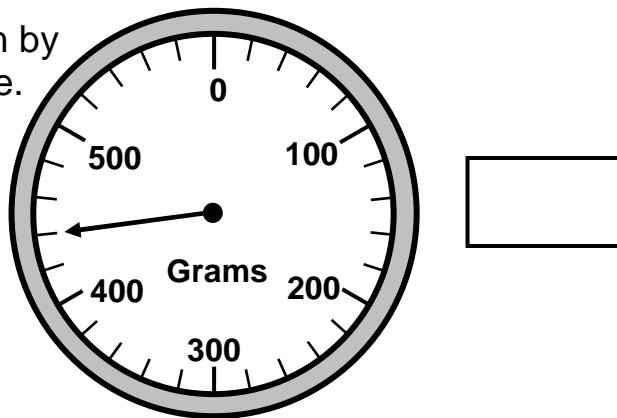
1. Read the mass shown by the arrow on this scale.



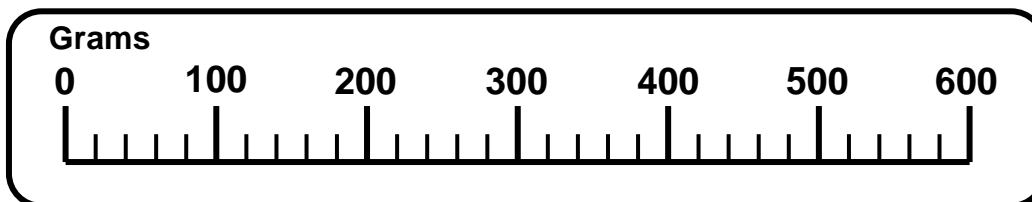
Draw an arrow on this **different** scale to show the **same mass**.



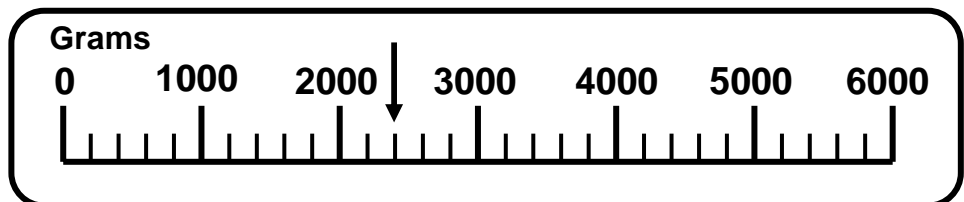
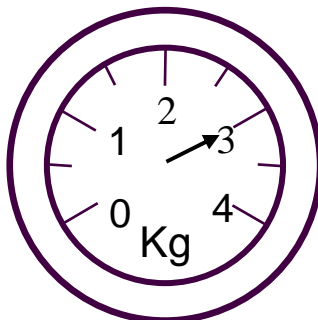
2. Read the mass shown by the arrow on this scale.



Draw an arrow on this **different** scale to show the **same mass**.



3. What is the difference in mass shown by these two scales?



Answers

Page 3

1. a) 3°C b) 1°C c) -3°C d) -1.5°C e) 0°C

2. a) 7°C b) 2°C c) 5°C d) -3°C

Page 4

1. a) 5°C b) -1°C c) -2°C d) 35°C e) 3°C

2. a) -6°C b) 10°C c) 16°C d) 44°C

Page 5

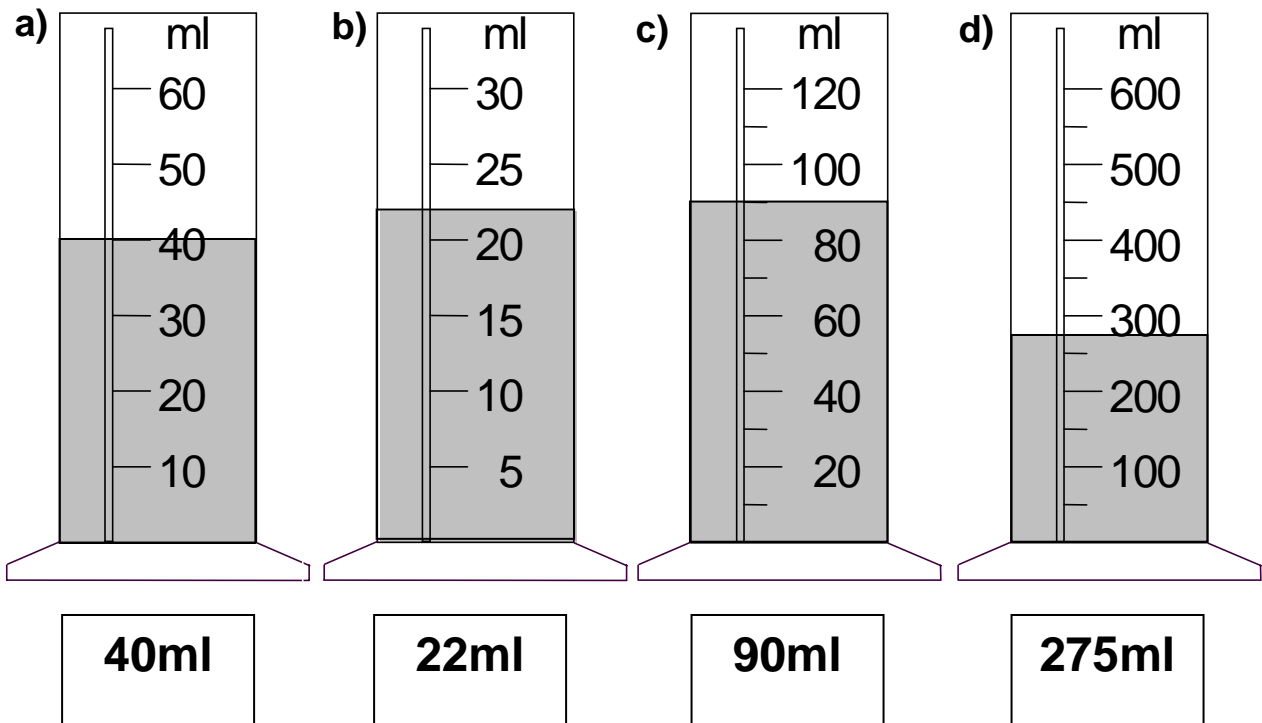
1. Draw lines to correct temperatures.

2. 0°C 3. -27°C 4. 22°C

Page 6

1. a) 50ml b) 35ml c) 250ml d) 525ml

2.



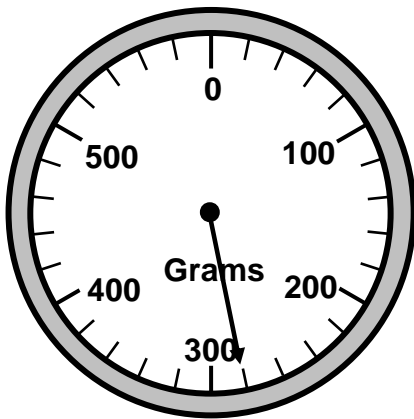
Answers (Contd)

Page 7

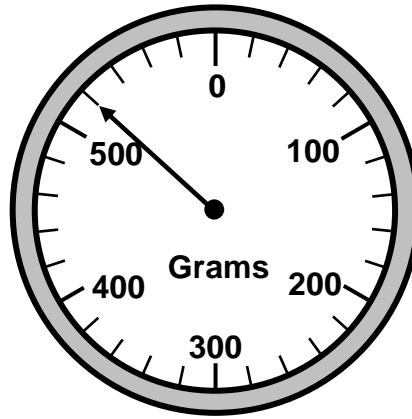
1. a) 1 Kg b) 2.5 Kg c) 3.25Kg d) 1.5 Kg

2. a) 460g b) 320g c) 230g

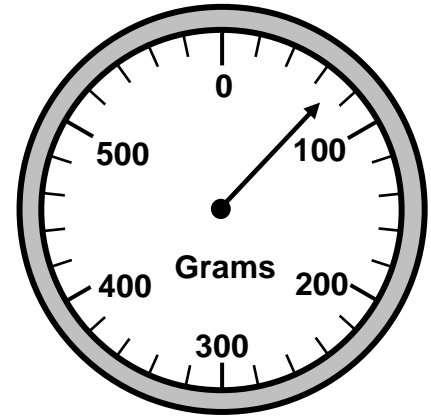
3.



280g



520g



70g

Page 8

1. Arrow at 240g 2. Arrow at 245g

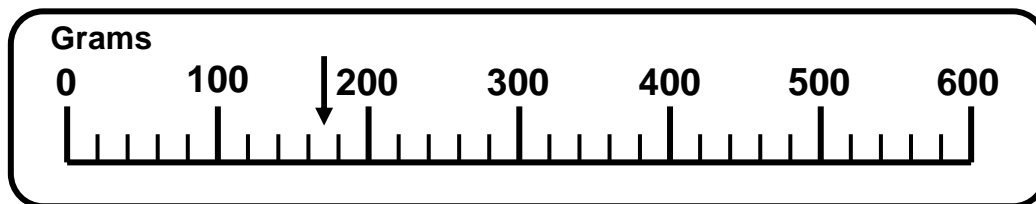
3. 800g (1150 – 350)

Page 9

1. a) 762.5 b) 832.5 c) 1 000.5 d) 77.5 e) 0.45 f) –9.5

Page 10

1. 170g



2. Arrow drawn to 440g.

3. 600g (3 000 – 2 400)