MATHS

YEAR 3
MEASUREMENT

NC. Objective: To measure, compare, add and subtract lengths and mass and to tell and write the time from an analogue clock.

Helping the Shepherd Prepare for Winter

As winter approaches, the shepherd is preparing his hut for the cold months. He must measure wood, weigh supplies and keep track of time so everything is ready before nightfall.

1. The shepherd found three wooden boards to block the cold wind.

    Measure the height of each board. Give your answers in both cm and mm.
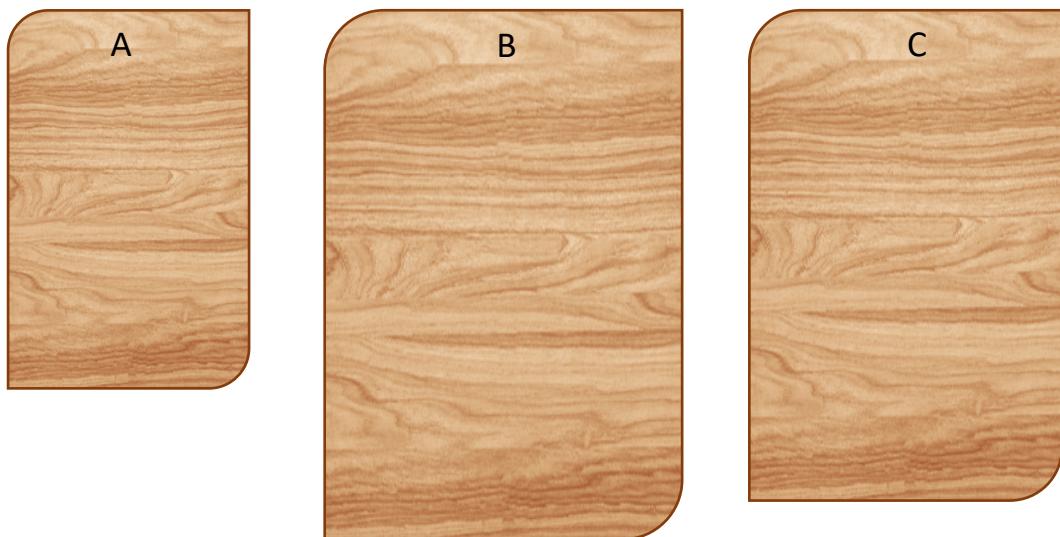
2. The shepherd packs food for the journey.

    A bag of grain weighs 3.6kg.
    A bag of apples weighs 2.4kg.

    a) What is the total mass of the two bags?
   b) What is the difference between the two masses?

3. The shepherd begins work at 9.20am. He finishes tying the shelter at 10:05am.

    a) How long did the job take? Explain how you found your answer.

Later, the shepherd rests until 10:30am, then sets off on his journey.

b) Write these times on the analogue clocks: **9:20am**, **10:05am**, **10:30am**
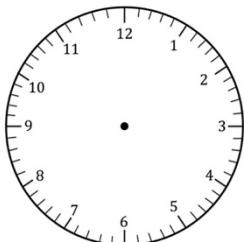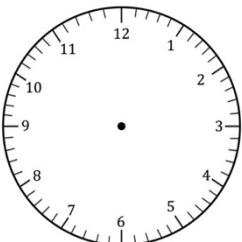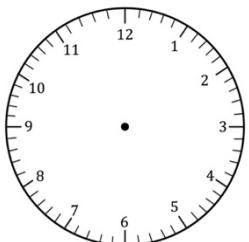
4. The shepherd cuts a rope of 120cm into two pieces. One piece is 45cm long.

45cm

? cm

Not to scale

a) How long is the other piece?

b) The remaining piece of rope is then used to tie two bundles equally.
   How long is each piece used?

5. In the evening, the shepherd finishes his journey and takes a look at the clock. What time does he see? Write your answer in both 12-hour and 24-hour format.