

Name \_\_\_\_\_

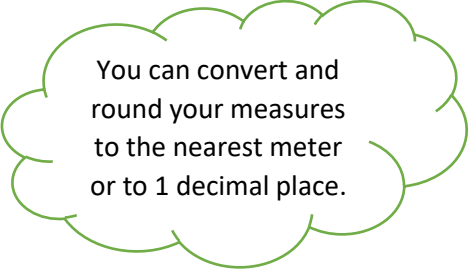
Date \_\_\_\_\_

Last term we looked at calculating areas of shapes. This week I would like you to use this skill in a practical context.

Activity 1: Visit the website below, watch the clips to see how Sian tackled her problems. Have a go at answering the questions on the website... How did you do?

<https://www.bbc.co.uk/bitesize/topics/zmhtkmn/articles/zrp7gwx>

Activity/Day 2 – Choose a room in your house that if you had the chance you would like to paint. Sketch the walls of the room in the space below. Measure the heights and widths of the walls to the best of your ability (A second person to hold the other end of a tape measure helps a lot if you can find someone). Calculate the areas of each wall and add them together to find a total area of the walls (if you are up for a challenge remove the area of doors and windows).



You can convert and round your measures to the nearest meter or to 1 decimal place.

Bonus question- Name something that best fits the following description: In a room you can find this around most of the perimeter of the floor.

Use the reverse or an extra page if more space is need for your workings.

Name \_\_\_\_\_

Date \_\_\_\_\_

Activity 3: Answer the following questions by researching online from a popular shop of your choice.

Which paint product would you choose for this room?

---

Which shop sells this product?

---

How much does it cost and how many litres of paint are in a pot?

---

What would you buy to ensure you had enough paint for **2 coats**? Show your workings below.

Answer: \_\_\_\_\_

How much would it cost?

Answer: \_\_\_\_\_

Use the reverse or an extra page if more space is need for your workings.

Name \_\_\_\_\_

Date \_\_\_\_\_

Activity 4: Sian used the bar method to show her calculation to work out how many litres of paint she needed. Bar method is a visual way of problem solving when using repeated addition or division (you can use a calculator or use your knowledge of multiplication to possibly help you calculate the answer)

Try to use the bar method to show your workings for the following questions.

1) Fred wants to visit his friend Bob. When driven carefully his moped can travel 27.96 miles per litre of petrol. Approximately how many litres of fuel would be needed to travel from Bristol to Exeter (80 miles)?

Answer \_\_\_\_\_ (2 marks)

2) Traveling on A roads at 30mph, with one short rest break on route, estimate how many hours it would take Fred to get from Bristol to Exeter (80 miles) on a moped?

Answer \_\_\_\_\_ (2 marks)

3) When in Exeter, Bob and Fred want to go into the city centre. A taxi charges £3 + £2 per mile. The centre is approximately 6 miles, how much should they expect to pay for the journey?

Answer \_\_\_\_\_ (2 marks)

Use the reverse or an extra page if more space is need for your workings.