HOME LEARNING

YEAR 6

24/04/2020

Morning Message

Good morning Year 6,

Happy Friday! Well done for completing another week of home learning. We hope you have been enjoying the tasks. Remember that if you would like your teacher to see the work you completed on Purple Mash then to hand it in today. Do not worry if you received it too late this week though.

The answer to yesterday's riddle is *fire.* Today's riddle is *Throw me off the tallest building and I shall not break, but toss me in the smallest pond and my life is at stake. What am I?* Answer on Monday.

Have a fantastic weekend.

Mr Larke and Ms. Yerlisu

Today's Picture

Writing

You live very close to an area of natural beauty/significance and have heard that the land has been sold in order to build a block of flats on the site. Your job is to write a letter to your local MP describing your outrage that this is happening and to persuade her to stop the project. It is up to you why the land is so important:

- perhaps it is the habitat for some particularly rare species of animal (ensure you write for the correct place though ie. if you are using the picture as inspiration, then you are writing in Australia; if you write in the English countryside, then you will need to be worrying about different animals)

- perhaps it is a field where numerous rare species of flower are found to grow

- perhaps it was the site of an important historical event e.g. a battle

Tips for success:

- **include an introduction summarising why you are writing**

- **include a few detailed paragraphs each making a new point**

- **include facts/statistics**

- **include emotive vocabulary**

- **write in a formal register**

Reading

Day 4: Character evaluation

1. Write a few paragraphs about everything you have learnt about Murph's character. Remember to make a point and then back it up with evidence from the text.
2. Choose one other character from the text and do the same for them.

Maths

In this lesson, you will further explore ratio as a relationship between parts to help solve problems in different contexts. You will use representations to show a ratio and make use of multiplication facts to help scale quantities.

Tips:
Scaling- The ratio of the length in a drawing to the length on the real thing. Example: in the drawing anything with the size of "1" would have a size of "5" in the real world, so a measurement of 15 cm on the drawing would be 15 x 5 = 75cm on the real. Ratio 1:5 15:75
• Recall and use multiplication and division facts.
• Solve simple ratio problems using multiplication as scaling. Example-Question 2 requires scaling a recipe for 6 cakes. In part b) you need to scale the recipe for 15 cakes. 15 is not a multiple of 6, so you could think about 15 as 12 + 3 = a multiple of 6 plus half of 6.
• Think how many parts in total for a given ratio. Example- ratio is 4: 13 total parts 4 + 13 = 17

⚡ Power Up

Lexi runs 2·64 km every day for 7 days. How far does she run in the week?

Miss Hall spends £4·75 each day from Monday to Friday on bus fares. How much does she spend in a working week?

Luxury ice creams are sold for £2·15 each or as 6 in a pack for £10. How much is saved by buying a pack instead of buying 6 individual ice creams?

> I will estimate the answers before I calculate them.

Example

Round the decimal km to the nearest whole km.

3,76 x 5 =

3,76 to the nearest integer is 4

4 x 5 = 20

The answers should be less then 20 more than 15.

3,76 x 5=   3 x 5 = 15   0,7 x 5 = 3,5   0,06 x 5 = 0,30

15 + 3,5 + 0,3 = 18,8

Problem solving – ratio and proportion

1 **a)** Andy buys some packets of stickers.

He has 32 car stickers.

How many stickers does he have in total?

b) There are 50 more car stickers than train stickers in a box.
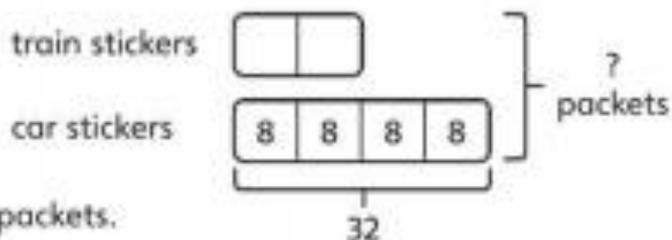
How many packets of stickers are in a box?

Share

a) **Method 1:**

Represent the problem using a bar model.

There are 4 car stickers for every 2 train stickers in a packet.

Andy has 32 car stickers.

train stickers

car stickers | 8 | 8 | 8 | 8 |

? packets

32

$32 \div 4 = 8$, so Andy buys 8 packets.

$8 \times 6 = 48$, so Andy has 48 stickers in total.

Method 2:

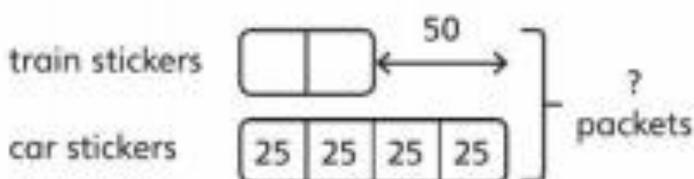| 1 packet | 4 cars + 2 trains |
2 packets	8 cars + 4 trains
4 packets	16 cars + 8 trains
8 packets	32 cars + 16 trains

$32 + 16 = 48$, so Andy has 48 stickers in total.

> I can solve the problem another way using **scaling**.

b) This bar model shows that there are 50 more car stickers.

train stickers

50

car stickers | 25 | 25 | 25 | 25 |

? packets

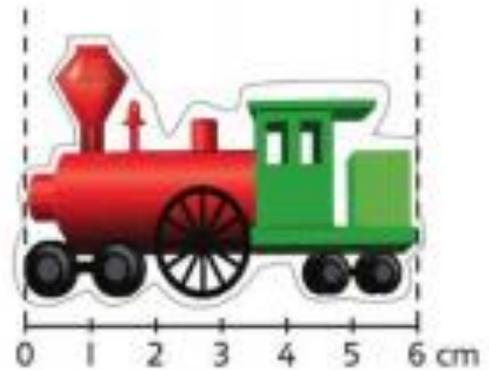The extra 50 stickers are equal to 2 parts of the car stickers bar.

Each part represents 25 so there are 25 packets of stickers in each box.

Think together

1 **a)** Here is one of Andy's train stickers.

I cm on the picture represents 2·5 m in real life.

What is the length of the train in real life?


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0   I   2   3   4   5   6 cm
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I know that I cm is 2·5 m so I can use this information to help me.

The train is ☐ m long in real life.

b) Another sticker to the same scale shows a train that is 20 metres long in real life. How many centimetres long is the sticker?

The sticker is ☐ cm long.

2 A recipe uses 4 spoons of honey for every 240 grams of fruit.

How many spoons of honey are needed for 600 grams of fruit?
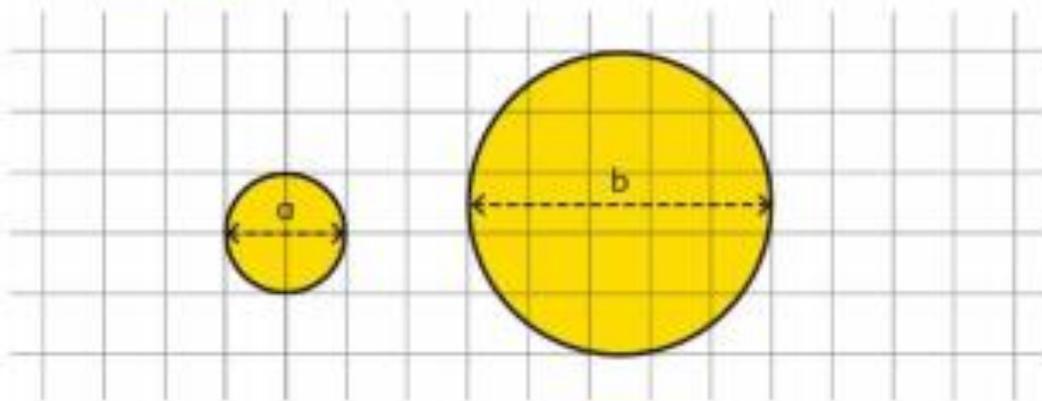
I think I can use scaling to help me here.

☐ spoons of honey are needed for 600 g of fruit.

3 Here are two circles.
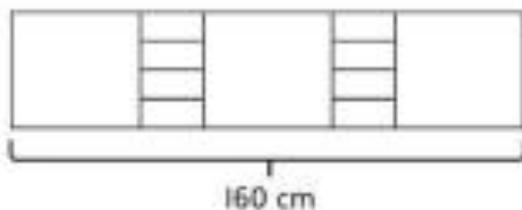
Write the ratio of diameter a to diameter b.

a : b = ☐ : ☐

Check the number of the lines on diameters.

4 Sofia and Toshi lay a path that is 4·8 metres long.

They use 8 small rectangular paving slabs for every 3 large square slabs.

CHALLENGE

160 cm

I am going to look at the relationship between the total length of the path and the length of the pattern of slabs in the diagram.

How many small rectangular slabs do they use?

How many large square slabs do they use?

Power Maths Book -69, 70, 71

Check mathletics

Weekly Spellings

Hopefully you have learnt all the words for spelling this week! Today you should ask a family member to test you on a random 15 of the words in your home learning books.

Foundation Topic Work (for the week)

France

Our geography topic this half-term is France. This week you will be researching details about the city of Paris and creating an information leaflet.

This task has been set for you on Purple Mash. Go to the red To Do button at the top left of your screen. When you have finished your work for the day, click on the red arrow at the top right of the screen and then save and exit. You will be asked if you want to continue the work or hand it in. Only hand it in when you have finished your weekly task and then your teacher can look at your work.

Diary

Write a diary of what work and activities you did today. Remember to include your thoughts, feelings and opinions.