

DR BAKER'S YEAR 5 MATHS
THURSDAY 23RD APRIL



WELCOME

“Good Morning. Hopefully you remembered or found out the answer to these but if not here they are. Next it is time for times tables again (next slide). See how quickly you can do them. Answers only in your books. Or alternatively spend 10 minutes on Rockstars before returning to the rest of today’s work.

$$10 \text{ mm} = 1 \text{ cm}$$

$$100 \text{ cm} = 1 \text{ m}$$

$$1000 \text{ m} = 1 \text{ km}$$

$$1000 \text{ g} = 1 \text{ kg}$$

$$1000 \text{ ml} = 1 \text{ l}$$

$$60 \text{ seconds} = 1 \text{ minute}$$

$$24 \text{ hours} = 1 \text{ day}$$

$$7 \text{ days} = 1 \text{ week}$$

$$365 \text{ or } 366 \text{ (leap year) days} = 1 \text{ year}$$

TIMES TABLES ANSWERS

1. $8 \times 11 =$

2. $4 \times 3 =$

3. $9 \times 8 =$

4. $2 \times 7 =$

5. $12 \times 11 =$

6. $12 \times 9 =$

7. $7 \times 7 =$

8. $12 \times 6 =$

9. $4 \times 9 =$

10. $3 \times 7 =$

11. $5 \times 8 =$

12. $9 \times 12 =$

13. $11 \times 6 =$

14. $4 \times 7 =$

15. $12 \times 2 =$

16. $7 \times 11 =$

17. $6 \times 8 =$

18. $10 \times 9 =$

19. $12 \times 7 =$

20. $9 \times 3 =$

TASKS FOR TODAY

L.O. To solve problems with decimals

Next we are going to try and put what we know about decimals into practice. We are going to use all the skills we have done recently, along with decimal addition and subtraction (remember these are exactly the same as ordinary addition and subtraction but you must line up the decimal point so you add the correct columns together.) If you are not confident about decimal addition or subtraction or you try the word problems and find them too difficult I have put some straight arithmetic problems on the next slide for you to do instead but I would like most of you to at least attempt set A, B or C. Mark as usual. Answers are at the end.

TASKS FOR TODAY ARITHMETIC

Set up column addition or subtraction sums and answer these questions. Remember to line up the decimal point.

1. $120.3 + 143.2$

2. $204.2 + 162.7$

3. $344.1 + 210.4$

4. $241.45 + 165.13$

5. $474.58 + 263.11$

6. $19.478 + 20.171$

7. $34.22 + 18.131$

8. $384.92 + 102.4$

9. $287.32 + 118.455$

10. $404 + 398.16$

11. $141.6 - 110.3$

12. $383.049 - 147.036$

13. $425.93 - 202.15$

14. $451.572 - 220.23$

15. $341.9 - 190.5$

Set A

Freda has a bowl with 0.3 kg of cake mix in it. She also has some 0.5 kg packs of cake mix. How much cake mix will be in the bowl if she:

- 1 adds one pack to the bowl?
- 2 adds three packs to the bowl?

The volume of water in three jugs is shown below.

Jug A	Jug B	Jug C
0.54 litres	0.57 litres	0.5 litres

- 3 Put the jugs in order, starting with the jug that has the greatest volume of water.
- 4 Write the volume of water in jug B as a fraction.
- 5 0.3 litres of water are poured out of jug C. How much water is in that jug now?

The temperature in the garden was 4 °C. It was 0.8 °C warmer in the shed. How warm was it in the shed?

- 6 Give your answer as a decimal.
- 7 Give your answer as a mixed number.

Lukas drives 8.56 km to the airport. How far is this rounded to:

- 8 the nearest km?
- 9 one decimal place?

Jules measures the widths of her furniture. Her drawers are 0.65 m wide and her chair is $\frac{673}{1000}$ m wide.

- 10 Which is wider, her drawers or her chair?
- 11 What is the width of her drawers to the nearest metre?
- 12 Edwin has £3.40 and Dennis has £4.20. How much do they have in total to the nearest pound?
- 13 Stan uses $\frac{4}{100}$ of a ribbon to wrap a present and $\frac{3}{1000}$ to decorate a card. How much of the ribbon has he used? Give your answer as a decimal.

Hints:

$$0.1 = \frac{1}{10},$$

$$0.01 = \frac{1}{100},$$

$$0.001 = \frac{1}{1000}$$

A mixed number is a whole number and a fraction. You also need to use rounding here so look back at that work if you are stuck.

Set B

Felix has a grey rock and a brown rock in his garden. The grey rock has a mass of 3.1 kg and the brown rock is 0.3 kg heavier.

- 1 What is the mass of the brown rock?
- 2 What is the total mass of the two rocks?
- 3 A digital thermometer records the temperature of a pan of water as 47.54°C . What is this temperature to one decimal place?

The exact lengths of coloured drawing pins are shown in the table below.

Colour	Length
Red	1.887 mm
Blue	1.893 mm
Green	1.885 mm
Yellow	1.89 mm

- 4 Which drawing pin is the longest?
- 5 What is the difference in lengths between the yellow and blue drawing pins?

Sam has 4.3 ml of eye drops left. Each drop is 0.2 ml. How much will be left if she uses:

- 6 2 drops?
- 7 6 drops?
- 8 The four judges in a dancing competition gave Rebecca these scores:

6.124 6.1 6.142 6.13

Put the scores in order, starting with her lowest score.

Celia finished a race in 8.51 seconds.

Priya finished $\frac{7}{1000}$ of a second after Celia.

- 9 What was Priya's time?
- 10 What was Celia's time to the nearest second?
- 11 A restaurant has $3\frac{4}{1000}$ litres of olive oil and 3.04 litres of sunflower oil. The chef says, "we have the same amount of each oil." Is he correct? Explain your answer.

Hints:

$$0.1 = \frac{1}{10},$$

$$0.01 = \frac{1}{100},$$

$$0.001 = \frac{1}{1000}$$

You also need to use rounding here so look back at that work if you are stuck.

Set C

The results of a diving competition are shown in the table below.

Diver	Maddy	Tom	Steph
Points	232.75	233.85	233.2

- 1 Which diver got the most points?
- 2 The points are rounded to the nearest whole number. Which two divers have the same points when rounded?
- 3 A printer takes 6.7 seconds to print the first page and 1.2 seconds to print each page after that. How many seconds does it take to print the first four pages?

1.55 litres of orange juice, $1\frac{475}{1000}$ litres of pineapple juice and 1.45 litres of lemonade are mixed together to make some punch.

- 4 How many litres of orange juice are used, to the nearest one decimal place?
- 5 How much more pineapple juice than lemonade is in the punch? Give your answer as a decimal.

- 6 Simon cycled 7.45 km on Monday and 4.39 km on Tuesday. Round each distance to the nearest tenth of a km and estimate the total distance he cycled.

A lumberjack recorded the thickness of three tree branches in this table.

Branch A	Branch B	Branch C
8.714 cm	8.72 cm	8.719 cm

- 7 Put the branches in order, starting with the thinnest branch.

What is the difference in thickness between:

- 8 branch A and branch C?
- 9 branch B and branch A?

The mass of a battery is 28 grams to the nearest whole gram. What is the heaviest the battery could be:

- 10 to one decimal place?
- 11 to two decimal places?

Hints:

$$0.1 = \frac{1}{10},$$
$$0.01 = \frac{1}{100},$$
$$0.001 = \frac{1}{1000}$$

You also need to use rounding here so look back at that work if you are stuck.

ANSWERS TO ARITHMETIC

1. $120.3 + 143.2 = 263.5$

2. $204.2 + 162.7 = 366.9$

3. $344.1 + 210.4 = 554.5$

4. $241.45 + 165.13 = 406.58$

5. $474.58 + 263.11 = 737.69$

6. $19.478 + 20.171 = 39.649$

7. $34.22 + 18.131 = 52.351$

8. $384.92 + 102.4 = 487.32$

9. $287.32 + 118.455 = 405.775$

10. $404 + 398.16 = 802.16$

11. $141.6 - 110.3 = 31.3$

12. $383.049 - 147.036 = 236.013$

13. $425.93 - 202.15 = 223.78$

14. $451.572 - 220.23 = 231.342$

15. $341.9 - 190.5 = 151.4$

ANSWERS TO PROBLEM SECTIONS

A	6. 4.8	12. £7.60, £8 to nearest £
1. 0.8kg	7. $4\frac{8}{10}$	13. 0.043
2. 1.4kg	8. 9 km	
3. B, A,C	9. 8.6km	
4. $\frac{57}{100}$	10. Chair	
5. 0.2	11. 1m	

B	8. 6.1, 6.124, 6.13, 6.142
1. 3.4kg	9. 8.517
2. 6.5kg	10. 9 secs
3. 47.5	11. No because 3.04 is $3\frac{4}{100}$ not $3\frac{4}{1000}$
4. Blue	
5. 0.003mm	
6. 3.9ml	
7. 3.1ml	

C	6. $7.5+4.4=11.9$
1. Tom	7. A,C,B
2. Maddy and Steph	8. 0.005
3. 10.3 secs	9. 0.006
4. 1.6l	10. 28.4
5. 0.025	11. 28.49

REMEMBER:

- **Talk to someone on your network hand if you are worried about something.**
- **If nobody is listening to your worries or there is nobody to talk to, you can google Childline or call them on 08001111. Adults at Childline are used to talking to children with worries and can help you.**
- **If you feel unsafe at home or are worried that a friend is not safe, call Mrs Patchett on 07787261064.**