

# Maths Year 5

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WEEK COMMENCING

13.07.20

# Your schedule for the week:

| Group | Monday  | Tuesday  | Wednesday  | Thursday   | Friday   |
|-------|---|--|--|--|--|
| A     | <ul style="list-style-type: none"> <li>❖ English – live lesson!</li> <li>❖ Follow-up tasks on the PowerPoint</li> </ul> | <ul style="list-style-type: none"> <li>❖ CGP Grammar p.7-9</li> <li>❖ CGP Grammar p.4-5</li> <li>❖ CGP Grammar p.11</li> <li>❖ CGP Writing p.27-9</li> <li>❖ VIPERS</li> </ul> | <ul style="list-style-type: none"> <li>❖ CGP Writing p.33-5</li> <li>❖ CGP Writing p.36-38</li> </ul>  | <ul style="list-style-type: none"> <li>❖ CGP Writing p.39-41</li> <li>❖ CGP Grammar p. 28</li> <li>❖ CGP Grammar p. 29</li> <li>❖ CGP Grammar p. 30</li> </ul> | Catch-up Day   |
|       | Maths CGP p.24<br>Additional questions on PowerPoint  | Maths CGP p.19<br>Additional questions on PowerPoint   | Maths: Live Lesson!<br>Follow-up questions on PowerPoint   | Follow-up questions on PowerPoint<br>Maths CGP p. 14 & 15  |  |
| B     | Catch-up Day  | <ul style="list-style-type: none"> <li>❖ English – live lesson!</li> <li>❖ Follow-up tasks on the PowerPoint</li> </ul>  | <ul style="list-style-type: none"> <li>❖ CGP Grammar p.7-9</li> <li>❖ CGP Grammar p.4-5</li> <li>❖ CGP Grammar p.11</li> <li>❖ CGP Writing p.27-9</li> <li>❖ VIPERS</li> </ul> | <ul style="list-style-type: none"> <li>❖ CGP Writing p.33-5</li> <li>❖ CGP Writing p.36-38</li> </ul>  | <ul style="list-style-type: none"> <li>❖ CGP Writing p.39-41</li> <li>❖ CGP Grammar p. 28</li> <li>❖ CGP Grammar p. 29</li> <li>❖ CGP Grammar p. 30</li> </ul> |
|       |   | Maths CGP p.24<br>Additional questions on PowerPoint   | Maths CGP p.19<br>Additional questions on PowerPoint   | Maths: Live Lesson!<br>Follow-up questions on PowerPoint   | Follow-up questions on PowerPoint<br>Maths CGP p. 14 & 15  |

Today you will be reviewing rounding and estimating and recap timetables

Group A – Monday  
Group B - Tuesday

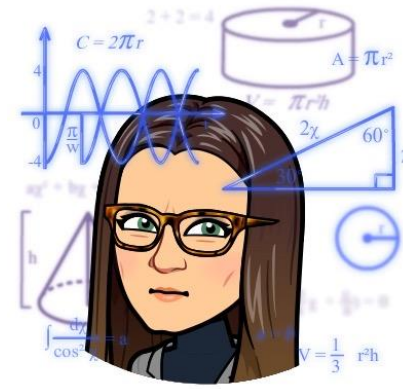
# Day 1

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- ❖ Complete p.24 of your CGP book (Rounding and Estimating)
- ❖ You will also recap timetables today (think back to our first maths live lesson)
- ❖ On the next page, you will find some additional challenges. Complete them in your distance learning book.

Rather than printing, you can copy the table in to your distance learning book.

# Additional challenges – rounding



A

The table shows the price of 4 different homes.

Round each price to the nearest £10,000 and nearest £100,000

| Type of house       | Price    | Rounded to the nearest £10,000 | Rounded to the nearest £100,000 |
|---------------------|----------|--------------------------------|---------------------------------|
| terraced house      | £194,167 |                                |                                 |
| semi-detached house | £225,674 |                                |                                 |
| detached house      | £365,697 |                                |                                 |
| flat                | £98,099  |                                |                                 |

When comparing house prices, is it more useful to round to the nearest £10,000 or £100,000? Explain why.

B

Round the numbers to the correct values.

a)

432,442

to the nearest 10 is

to the nearest 100 is

to the nearest 1,000 is

to the nearest 10,000 is

to the nearest 100,000 is

b)

878,675

to the nearest 10 is

to the nearest 100 is

to the nearest 1,000 is

to the nearest 10,000 is

to the nearest 100,000 is

# Additional challenges – timetables



Here is a bus timetable:

|                    | Bus A | Bus B | Bus C |
|--------------------|-------|-------|-------|
| Green Park Road    | 08:45 | 09:00 | 09:15 |
| Forrest Drive      | 09:05 | 09:20 | 09:35 |
| Summerville Street | 09:22 | 09:37 | 09:52 |
| Penny Bridge       | 09:40 | 09:55 |       |

a) What time does Bus A arrive at Green Park Road?

b) What time does Bus B arrive at Summerville Street?

c) What time does Bus C arrive at Forrest Drive?


d) Each bus takes the same amount of time to get from Green Park Road to Penny Bridge.

What time does Bus C arrive at Penny Bridge?

# Additional challenges – timetables



In this timetable, all the trains stop at every station and the time taken between stations does not change.

|  |       |       |       |       |
|--|-------|-------|-------|-------|
| Aberford   | 08:30 | 11:00 | 13:10 |       |
| Cartown  |       | 11:22 |       |       |
| Donville   |       |       | 13:47 |       |
| Highborough  |       |       | 14:01 |       |
| Southland  | 09:57 |       |       | 16:03 |

- 1) How long is the journey from Aberford to Cartown?
- 2) How long is the journey from Aberford to Donville?
- 3) How long is the journey from Aberford to Highborough?
- 4) How long is the journey from Aberford to Southland
- 5) Fill in the missing information on the timetable (copy it if you don't have access to a printer)

## Day 2

Today you will be investigating fractions in preparation for our live lesson tomorrow!

Group A – Tuesday  
Group B - Wednesday

- ❖ What can you remember about improper fractions and mixed numbers?
- ❖ Watch the video <https://vimeo.com/415436982>
- ❖ **Complete CGP maths p.19**
- ❖ Answer the questions on the next pages

Have you watched the video?  
Have you completed p.19 of your CGP book?

Group A – Tuesday  
Group B - Wednesday

A

Draw bar models and convert the improper fraction to a mixed number for each example.

a)

$$\frac{7}{3} = \boxed{\phantom{00}}$$

c)

$$\frac{9}{4} = \boxed{\phantom{00}}$$

d)

$$\frac{11}{4} = \boxed{\phantom{00}}$$

b)

$$\frac{8}{3} = \boxed{\phantom{00}}$$

B

Convert the improper fractions to mixed numbers.

a)  $\frac{10}{2} = \boxed{\phantom{00}}$

e)  $\frac{12}{5} = \boxed{\phantom{00}}$

b)  $\frac{10}{3} = \boxed{\phantom{00}}$

f)  $\frac{13}{6} = \boxed{\phantom{00}}$

c)  $\frac{10}{4} = \boxed{\phantom{00}}$

g)  $\frac{13}{7} = \boxed{\phantom{00}}$

d)  $\frac{10}{5} = \boxed{\phantom{00}}$

h)  $\frac{31}{8} = \boxed{\phantom{00}}$



C

Eva has 7 bottles of juice.

Each bottle contains half a litre of juice.



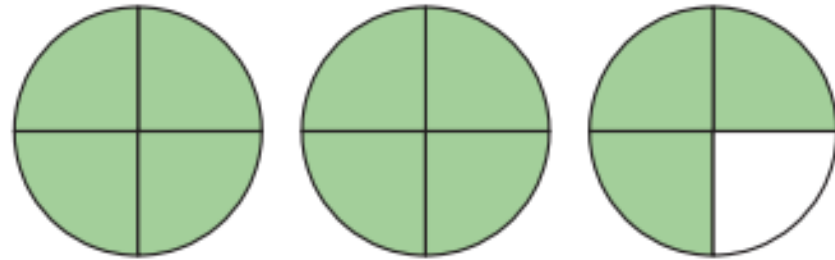
How many litres of juice does Eva have altogether?

Write your answer as a mixed number.

D

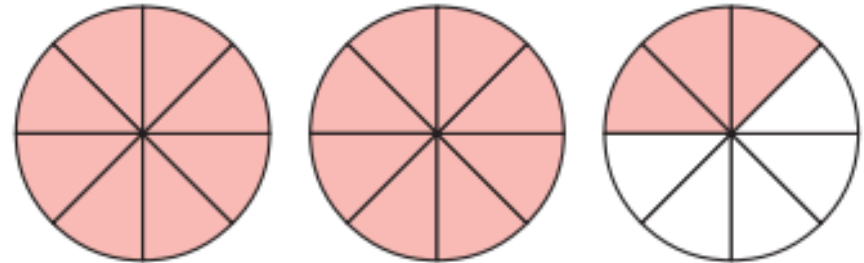
Convert the mixed numbers to improper fractions.

a)



$$2\frac{3}{4} = \frac{\boxed{\phantom{000}}}{4}$$

b)

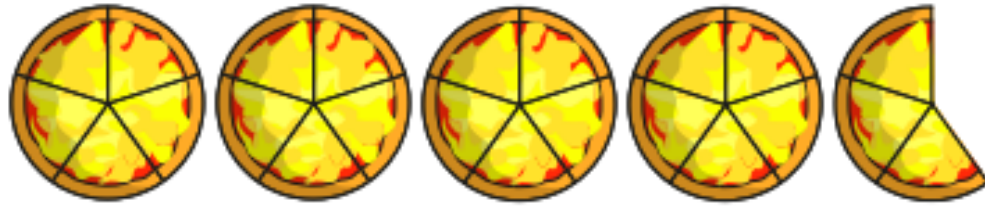


$$2\frac{3}{8} = \frac{\boxed{\phantom{000}}}{8}$$

# I NEED

E

Here are 4 whole pizzas and  $\frac{3}{5}$  of a pizza.



How many children can have  $\frac{1}{5}$  of a pizza?



F

Whitney is converting mixed numbers to improper fractions.



$$4\frac{1}{7} = \frac{28}{7}$$

Do you agree with Whitney? \_\_\_\_\_

Explain your answer.

G

Find two possible values for ★ and ▲

$$\frac{30}{\star} = \blacktriangle \frac{2}{\star}$$

$$\star = \square$$

$$\blacktriangle = \square$$

$$\star = \square$$

$$\blacktriangle = \square$$

# Day 3

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Today is your **LIVE LESSON!**  
See you at 10am, 11am or 1pm!





# Welcome to your maths live lesson!



You will need:

- A sharp pencil
- Your CGP maths book
- Your distance learning book or paper

# Session outline

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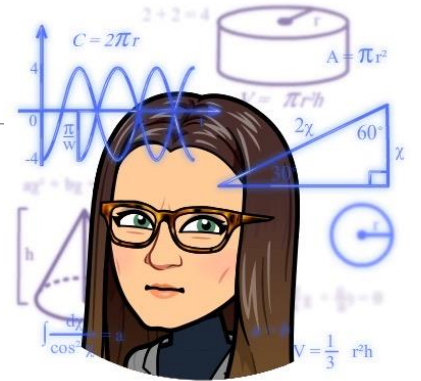
- ❖ Starter – converting improper fractions to mixed numbers!
- ❖ Multiplying unit fractions
- ❖ Multiplying non-unit fractions



Don't forget to mute your  
microphone!

Starter: convert these improper fractions to mixed numbers

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$$\frac{26}{4} =$$

$$\frac{16}{5} =$$

$$\frac{62}{5} =$$

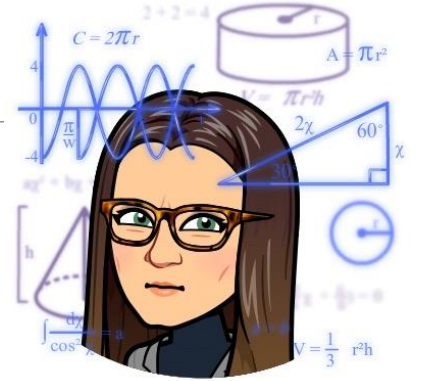
$$\frac{41}{9} =$$

$$\frac{27}{8} =$$

$$\frac{36}{7} =$$

# Starter: convert these improper fractions to mixed numbers

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$$\frac{26}{4} = 6\frac{2}{4}$$

$$\frac{16}{5} = 3\frac{1}{5}$$

$$\frac{62}{5} = 12\frac{2}{5}$$

$$\frac{41}{9} = 4\frac{5}{9}$$

$$\frac{27}{8} = 3\frac{3}{8}$$

$$\frac{36}{7} = 5\frac{1}{7}$$

# Counting in unit fractions

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$$\frac{1}{7} + \frac{1}{7} + \frac{1}{7} = \frac{3}{7}$$

$$3 \times \frac{1}{7} = \frac{3}{7}$$



# Your turn!

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$$3 \times \frac{1}{5}$$

$$4 \times \frac{1}{6}$$

$$7 \times \frac{1}{10}$$

$$5 \times \frac{1}{8}$$

# Your turn!

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$$3 \times \frac{1}{5} = \frac{3}{5}$$

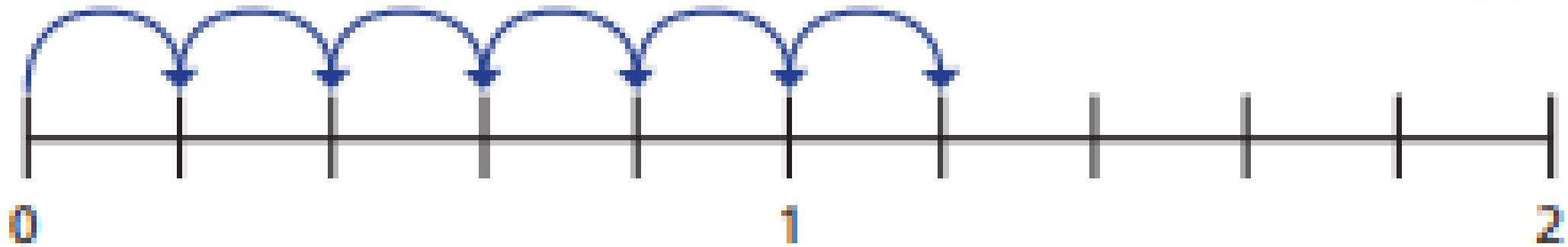
$$4 \times \frac{1}{6} = \frac{4}{6}$$

$$7 \times \frac{1}{10} = \frac{7}{10}$$

$$5 \times \frac{1}{8} = \frac{5}{8}$$

# What if the calculation creates an improper fraction?

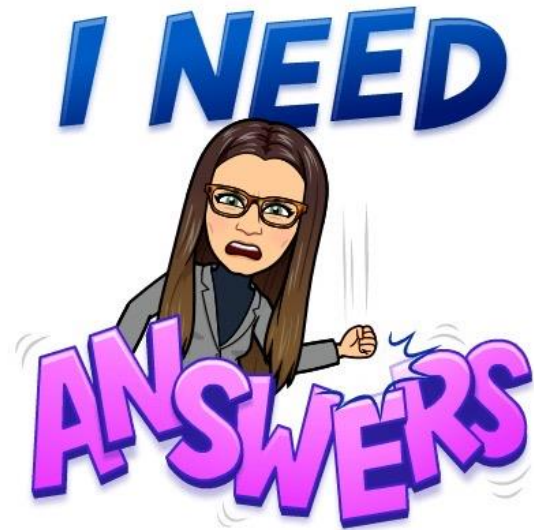
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$$6 \times \frac{1}{5} = \boxed{\frac{6}{5}} = \boxed{1 \frac{1}{5}}$$

Your turn!

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a)  $\square \times \frac{1}{3} = \frac{2}{3}$

e)  $\frac{1}{8} \times \square = 1\frac{3}{8}$

b)  $\square \times \frac{1}{3} = 1$

f)  $\square \times \frac{1}{2} = 3\frac{1}{2}$

c)  $\square \times \frac{1}{7} = 1$

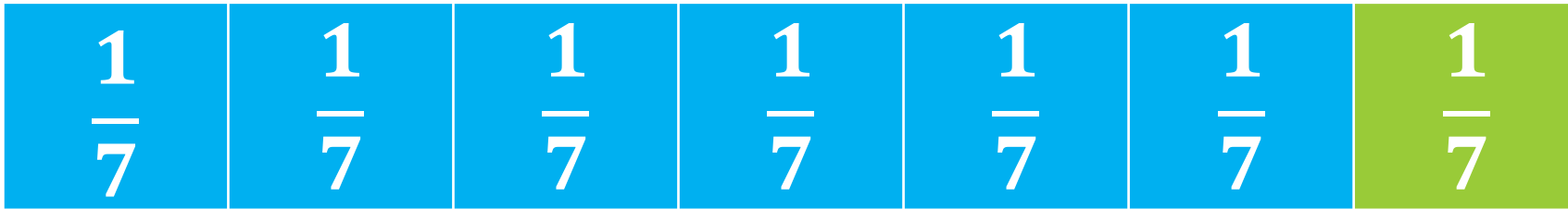
g)  $\square \times \frac{1}{3} = 3\frac{1}{3}$

d)  $\frac{1}{7} \times \square = 1\frac{3}{7}$

h)  $\frac{1}{4} \times \square = 3\frac{1}{4}$

# Counting in non-unit fractions

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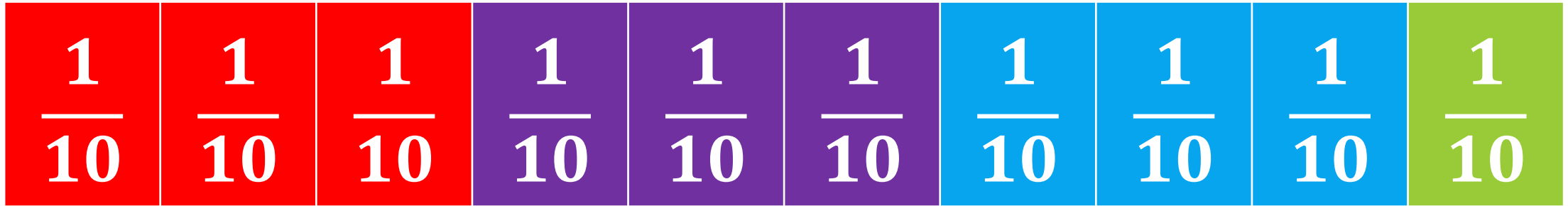


$$\frac{2}{7} + \frac{2}{7} + \frac{2}{7} = \frac{6}{7}$$

$$3 \times \frac{2}{7} = \frac{6}{7}$$

# Counting in non-unit fractions

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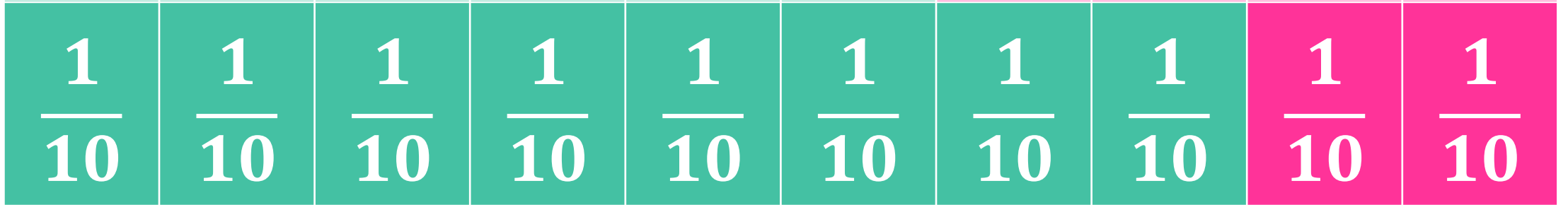


$$\frac{3}{10} + \frac{3}{10} + \frac{3}{10} = \frac{9}{10}$$

$$3 \times \frac{3}{10} = \frac{9}{10}$$

# Counting in non-unit fractions

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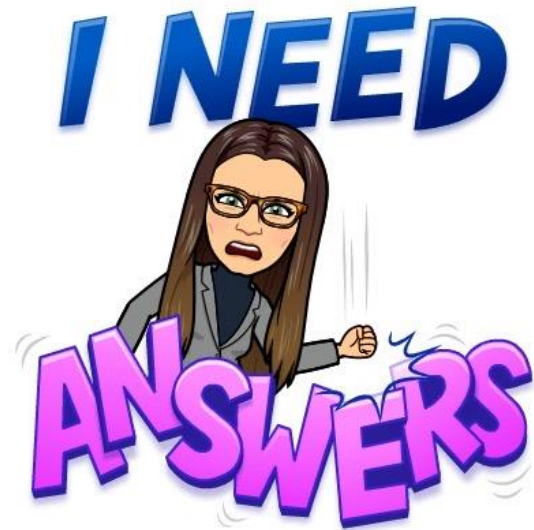


$$4 \times \frac{2}{10} = \frac{8}{10}$$

Your turn!

a)  $2 \times \frac{3}{7} =$

d)  $5 \times \frac{2}{11} =$



b)  $3 \times \frac{3}{11} =$

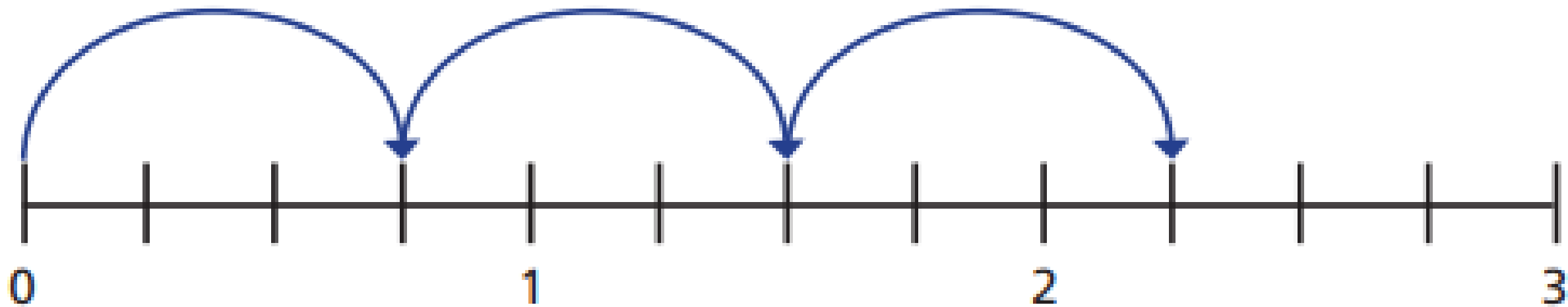
e)  $\frac{2}{15} \times 7 =$

c)  $\frac{2}{11} \times 4 =$

f)  $\frac{7}{15} \times 2 =$

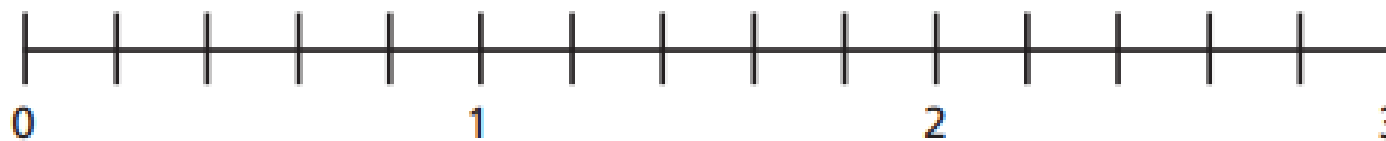




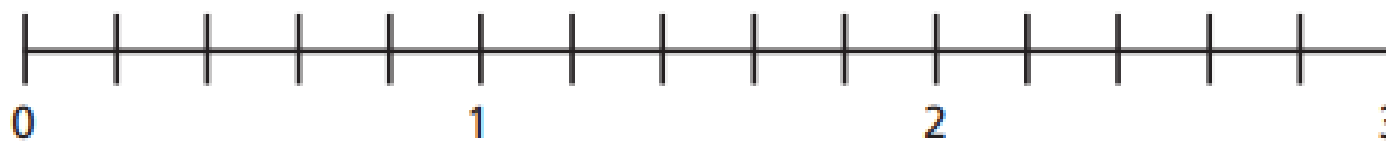


$$3 \times \frac{3}{4} = \boxed{\frac{9}{4}} = \boxed{2\frac{1}{4}}$$

Draw a number line to help convert the improper fraction to a mixed number



$$4 \times \frac{3}{5} = \square = \square$$



$$3 \times \frac{4}{5} = \square = \square$$

# Day 4

Today is the follow-up to your live lesson!

Group A – Thursday  
Group B - Friday

$$\frac{1}{3} + \frac{1}{3}$$

$$2 \times \frac{1}{5}$$

$$\frac{1}{5} + \frac{1}{5} + \frac{1}{5}$$

$$\frac{1}{4} \times 3$$

$$\frac{1}{5} + \frac{1}{5}$$

$$3 \times \frac{1}{5}$$

$$\frac{1}{4} + \frac{1}{4} + \frac{1}{4}$$

$$2 \times \frac{1}{3}$$

Warm up!  
Match the multiplication to the equivalent addition

# Day 4

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Today is the follow-up to your live lesson!

Group A – Thursday  
Group B - Friday

- ❖ Now complete CGP Maths p. 14 & 15
- ❖ Then answer the questions on the next slides

A

Use the diagram help you to work out  $\frac{3}{2} \times 3$

Write your answer as a mixed number.



A

$$\frac{3}{6}$$

B

$$3\frac{3}{2}$$

C

$$4\frac{1}{2}$$

D

$$4.5$$

C

Work out  $2 \times \frac{6}{5}$

Write your answer as a mixed number

A

$$2\frac{2}{5}$$

B

$$1\frac{2}{10}$$

C

$$\frac{6}{10}$$

D

$$\frac{12}{5}$$

B

The number line shows  $2\frac{1}{3}$



Work out  $2\frac{1}{3} \times 4$

Write your answer in the simplest form.

A

$$8\frac{1}{12}$$

B

$$9\frac{1}{3}$$

C

$$8\frac{4}{3}$$

D

$$8\frac{1}{3}$$

D

Work out  $3 \times 2\frac{2}{3}$

A

$$\frac{24}{3}$$

B

$$6\frac{2}{3}$$

C

$$6\frac{6}{9}$$

D

$$\frac{20}{3}$$

E

One bag of potatoes weighs  $1\frac{3}{4}$  kg.

How much do 5 bags of potatoes weigh?



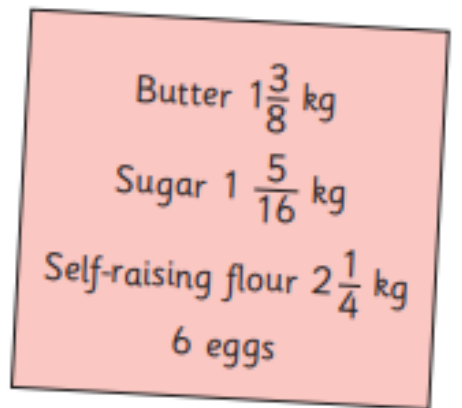
F

Eva drinks  $3\frac{1}{3}$  litres of water a day.

How many litres of water does she drink in a week?

G

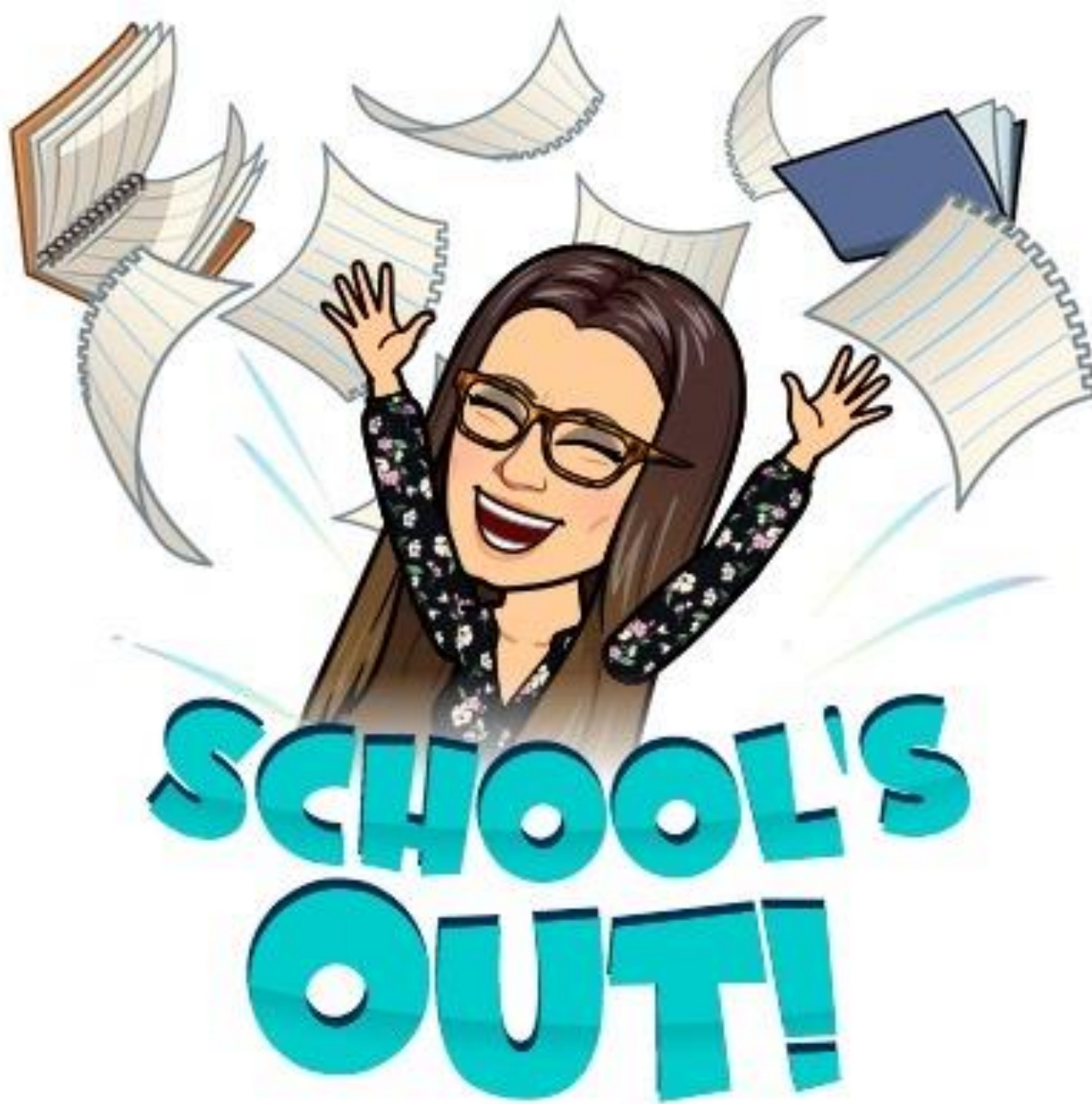
Here is a recipe for a birthday cake.



a) How much flour is needed for 3 birthday cakes?

b) Dora makes 4 birthday cakes.

How much more butter does she use than sugar?



Well done for  
all your hard  
work! See you  
in September!