Maths Year 5

It is not necessary to print off this document for your child's distance learning.

WEEK COMMENCING

29.06.20

Click here for 'catch up' day suggestions

Your schedule for the week:

Group	Monday	Tuesday	Wednesday	Thursday	Friday
A	English: LIVE LESSON (Biographies)	CGP Writing: p.16, 17 (Q2,3,4) CGP Grammar: p. 24-5	CGP Grammar: p.26-7 Research & Plan Task	CGP Grammar: p. 31-2 Draft, Edit and Publish Biography	Catch up day: English – VIPERS Bug Club, Discovery, Votes for Schools, music,
	Maths: CGP Maths page 4-5, p.7, p.13 Answer the challenge questions on the next slides of the PowerPoint	Watch Video CGP Maths p.16 Additional questions on PowerPoint	Maths: LIVE LESSON Equivalent Fractions & percentages	Watch video CGP Maths p. 17, 18, 20, 21 Additional questions on Powerpoint	
B	Catch up day: English – VIPERS Bug Club, Discovery, Votes for Schools, music,	English: LIVE LESSON (Biographies)	CGP Writing: p.16, 17 (Q2,3,4) CGP Grammar: p. 24-5	CGP Grammar: p.26-7 Research & Plan Task	CGP Grammar: p. 31-2 Draft, Edit and Publish Biography
		Maths: CGP Maths page 4-5, p.7, p.13 Answer the challenge questions on the next slides of the PowerPoint	Watch Video CGP Maths p.16 Additional questions on PowerPoint	Maths: LIVE LESSON Equivalent Fractions & percentages	Watch video CGP Maths p. 17, 18, 20, 21 Additional questions on Powerpoint

Day 1

Today you will be

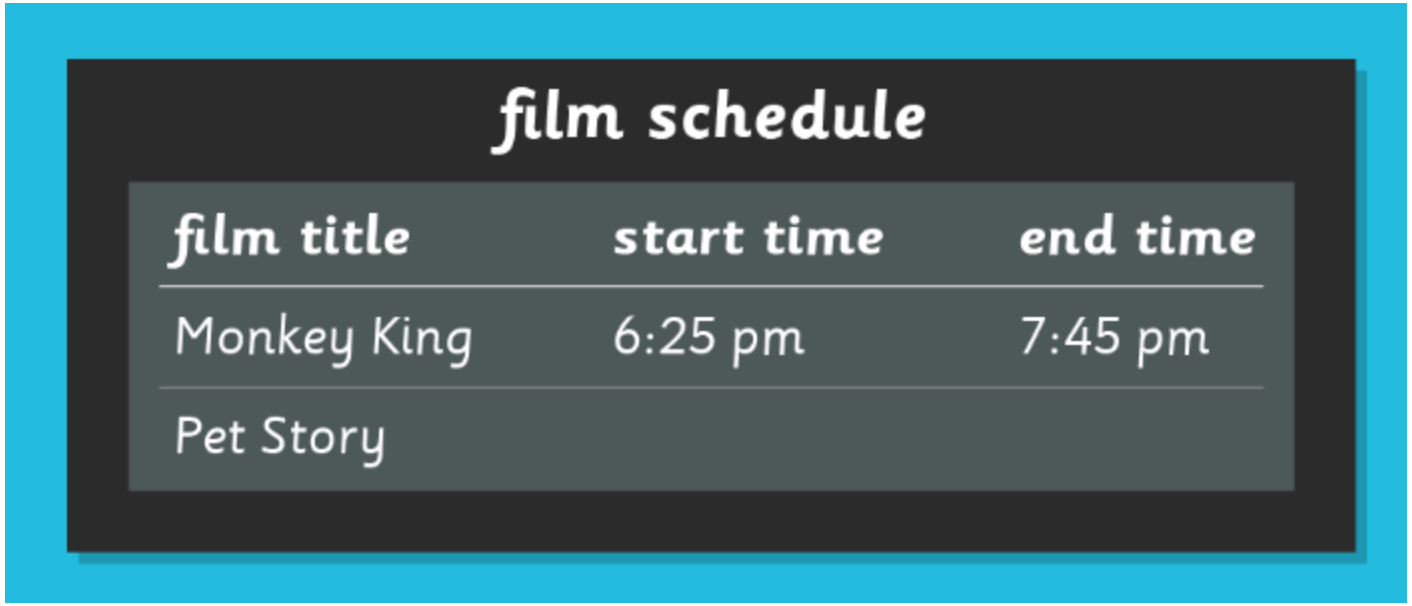
Group A – Monday
Group B - Tuesday

- Complete the following CGP Maths book pages:
  - page 4-5 Place Value and Ordering
  - page 7 Written Subtraction
  - page 13 Factors
- Answer the challenge questions on the next page
- (click here for answers)
- During your live lesson, you will be required to know your multiplication tables. If you don't know them yet, please have a multiplication grid handy. Either print one out or make one

Group A – Monday
Group B - Tuesday

Challenge questions

1.



film schedule

film title	start time	end time
Monkey King	6:25 pm	7:45 pm
Pet Story		

Two films have a total running time of 3 hours and 30 minutes. Monkey King starts at 6.25 p.m. and finishes at 7.45 p.m.
How long is Pet Story in hours and minutes?

Group A – Monday
Group B - Tuesday

Challenge questions

2.

A cruise ship departs in the morning on the 15th June and returns in the afternoon on the 20th June. Using the times shown in the image, how long did the cruise last for in **hours**?

Make a multiplication square ready for your live lesson!

×	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

Day 2

You will be using the CGP Maths book and answering questions on this PowerPoint!

Group A – Tuesday
Group B - Wednesday

Starter:

- **Click here** to watch a video about equivalent fractions

Day 2

You will be using the CGP Maths book and answering questions on this PowerPoint!

Group A – Tuesday
Group B - Wednesday

Independent Activity:

- Complete CGP Maths page 16
- Complete the additional equivalent fraction questions on the next two slides
- Click here for answers

Day 2

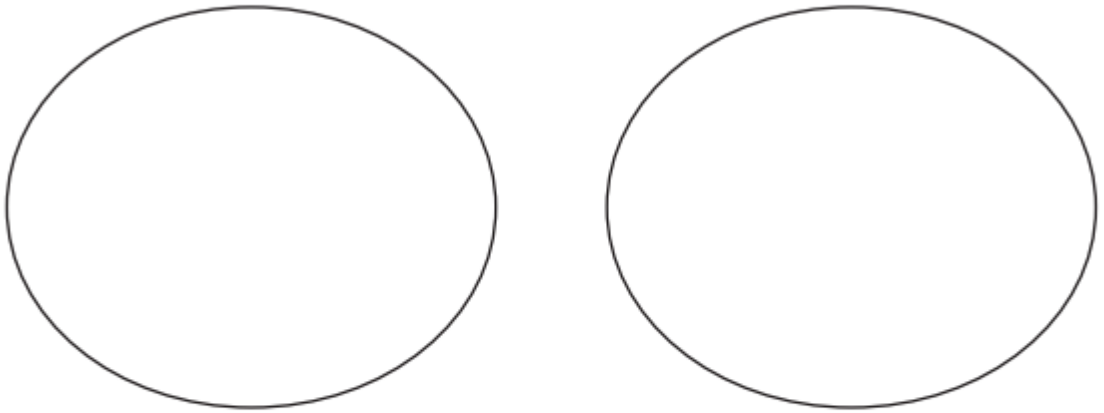
After watching the video and completing page 16 in your CGP book!

Group A – Tuesday
Group B - Wednesday

1. **a)** Sort the fractions into the groups.

Equivalent to $\frac{1}{4}$

Equivalent to $\frac{1}{3}$



$\frac{5}{15}$ $\frac{2}{6}$ $\frac{3}{12}$ $\frac{6}{24}$ $\frac{8}{24}$ $\frac{5}{20}$ $\frac{4}{12}$ $\frac{2}{8}$

b) Write one more fraction in each group.

2. Complete the equivalent fractions.

a) $\frac{1}{7} = \frac{\square}{14}$

b) $\frac{5}{7} = \frac{\square}{14}$

c) $\frac{7}{8} = \frac{14}{\square}$

d) $\frac{3}{4} = \frac{6}{\square}$

e) $\frac{3}{4} = \frac{12}{\square}$

f) $\frac{3}{4} = \frac{\square}{12}$

g) $\frac{2}{\square} = \frac{10}{15}$

h) $\frac{2}{\square} = \frac{10}{25}$

i) $\frac{2}{7} = \frac{10}{\square}$

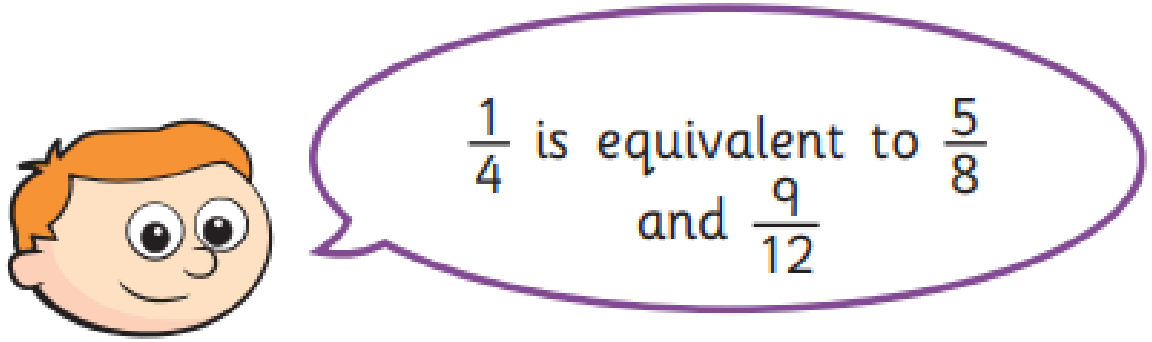
j) Describe the pattern in part g), h) and i) to a partner.

Day 2

After completing these questions, don't forget to answer the challenge questions on the next pages

Group A – Tuesday
Group B - Wednesday

3. Ron is finding equivalent fractions to $\frac{1}{4}$



Do you agree with Ron? _____

Draw a diagram to support your answer.

4. Here are some equivalent fractions.

Find the values of A, B and C.

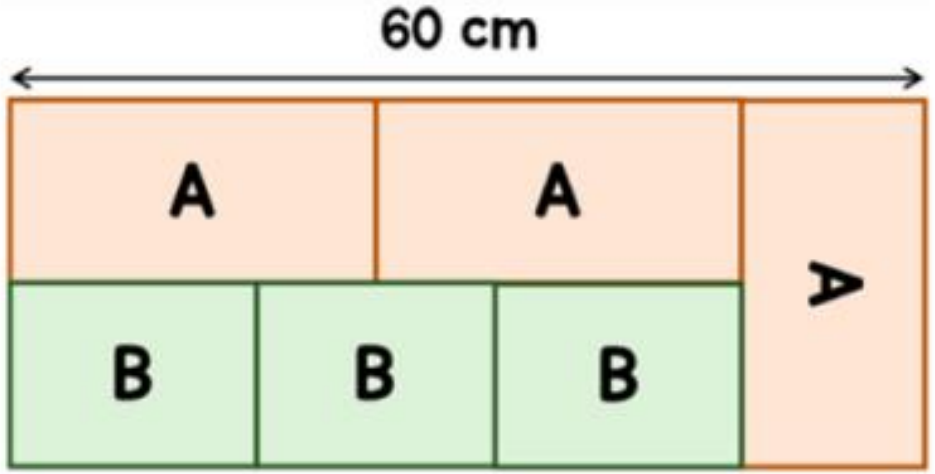
$\frac{A}{9}$ $\frac{3}{B}$ $\frac{2}{18}$ $\frac{C}{90}$

A = ☐ B = ☐ C = ☐

Challenge questions

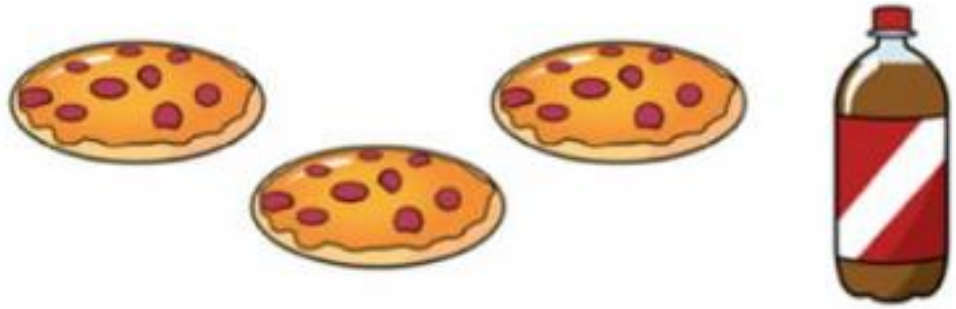
Group A – Monday
Group B - Tuesday

1 A large rectangle is made up of smaller rectangles, labelled A and B



The length of A is double the width of A.
Find the area of one of the rectangles labelled B.

2 Mina buys 3 pizzas and a bottle of cola.



A pizza costs £3.20 more than a bottle of cola.
The total cost of the items is £19.40
How much does a pizza cost?

Group A – Wednesday
Group B – Thursday

Day 3

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

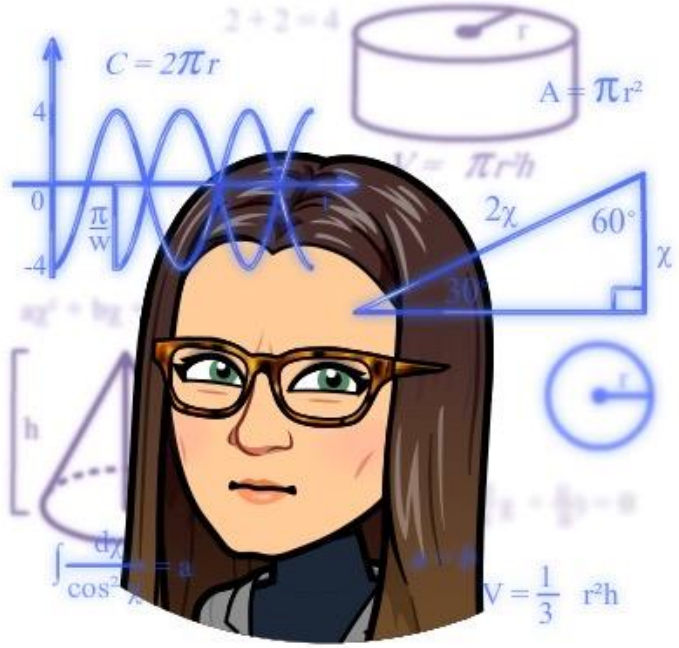
Welcome to your maths live lesson!

You will need:

- ✓ A pencil & paper/distance learning book
- ✓ CGP maths book
- ✓ Answers from Day 2 challenge questions

Session outline

- Flashback Four
- Problem solving answers
- Equivalent fractions
- Converting fractions to percentages



CVPS

Jot down your answers in your distance learning book or on paper

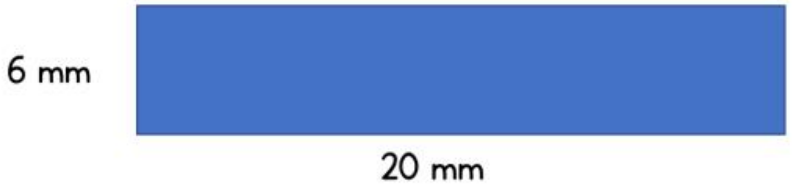
Flashback 4

Year 5 | Week 3 | Day 2

1) Write a fraction equivalent to $\frac{1}{2}$

2) Multiply 168 by 5

3) Work out the perimeter of the rectangle.



4) Write "half a million" in figures.

White Rose Maths

How did you score?
What do you need to keep practising?

Flashback 4

Year 5 | Week 3 | Day 2

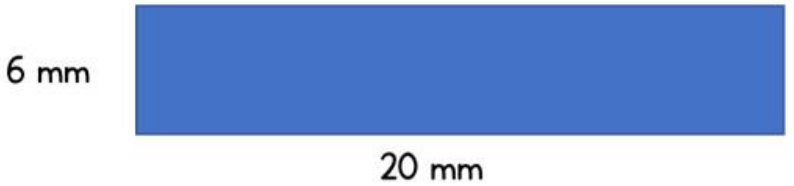
1) Write a fraction equivalent to $\frac{1}{2}$

$\frac{2}{4}, \frac{3}{6}, \frac{10}{20}...$

2) Multiply 168 by 5

840

3) Work out the perimeter of the rectangle.



52 mm

4) Write "half a million" in figures.

500 000

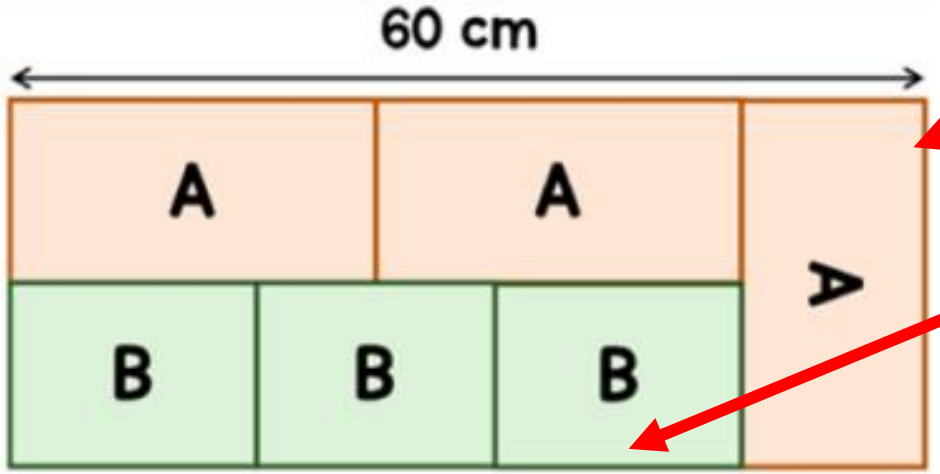
White Rose Maths

Day 2

Answers!

Group A – Tuesday
Group B - Wednesday

A large rectangle is made up of smaller rectangles, labelled A and B



60 ÷ 5 = 12
A = 24cm x 12cm

60 – 12 = 48
48 ÷ 3 = 16

Area of B = 16cm x 12cm
= 192cm

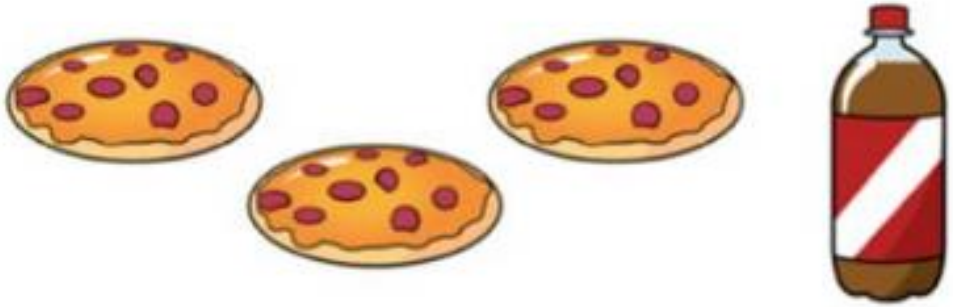
The length of A is double the width of A. Find the area of one of the rectangles labelled B.

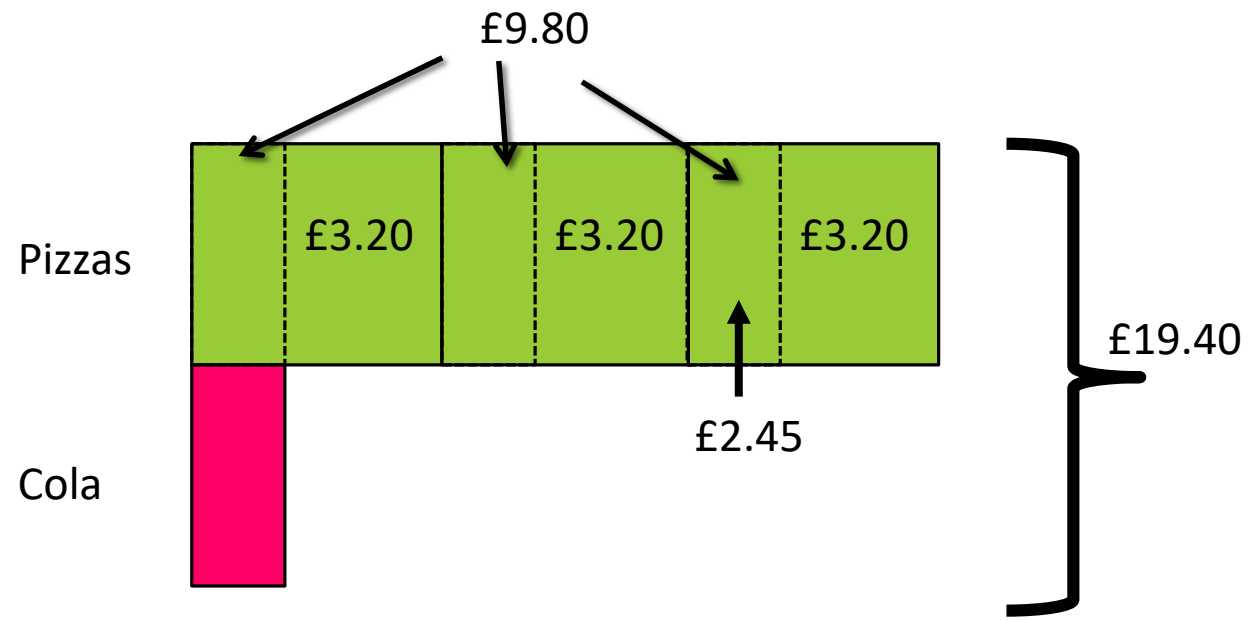
Day 2

Answers!

Group A – Tuesday
Group B - Wednesday

Mina buys 3 pizzas and a bottle of cola.





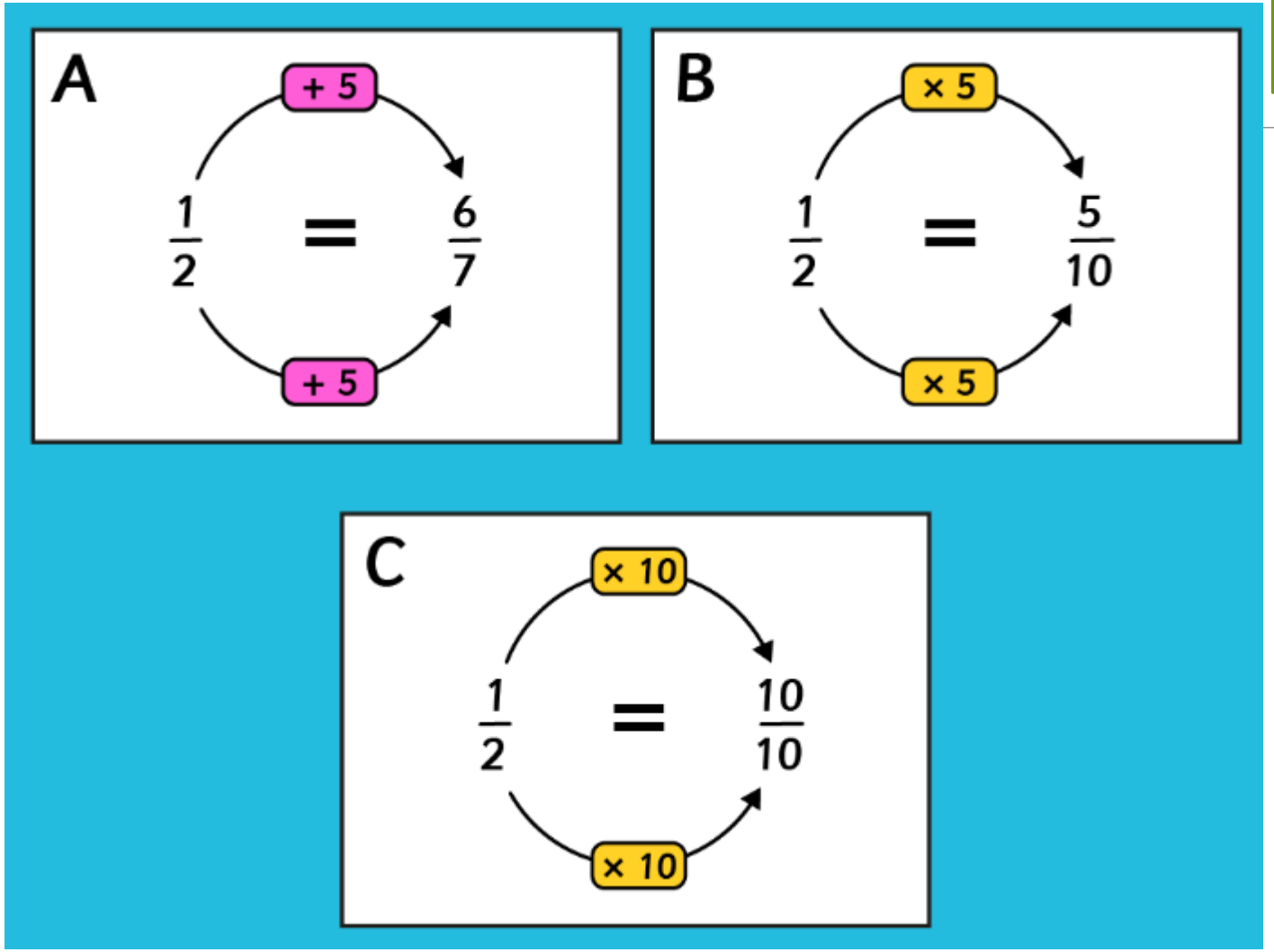
A pizza costs £3.20 more than a bottle of cola.
The total cost of the items is £19.40
How much does a pizza cost?

£3.20 x 3 = £9.60
£19.40 - £9.60 = £9.80

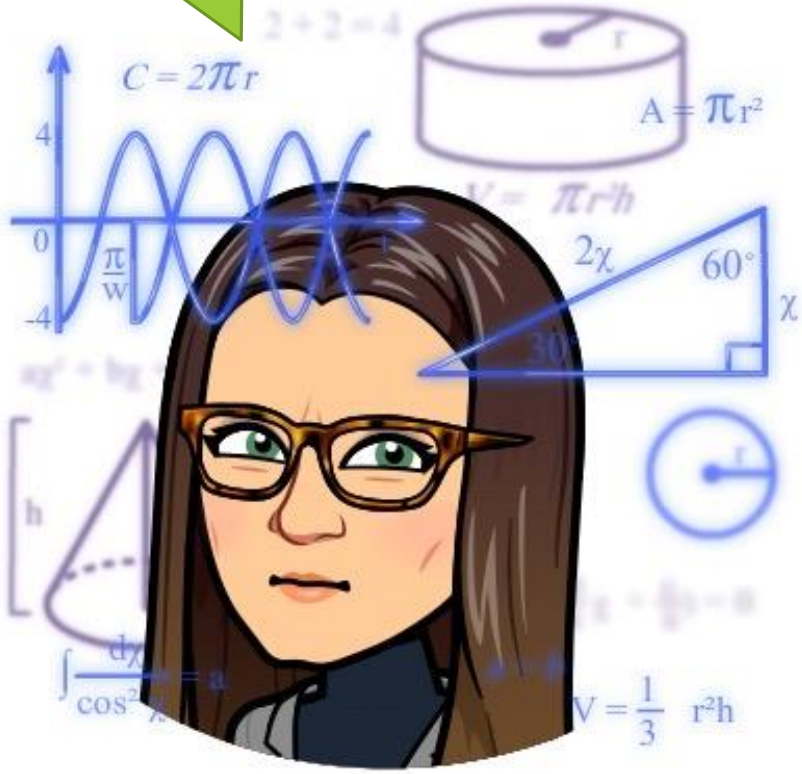
$$4 \overline{)\,9.80} \quad 2.45 \quad (1\ 2)$$

Pizza =
£3.20 + 2.45
= £5.65

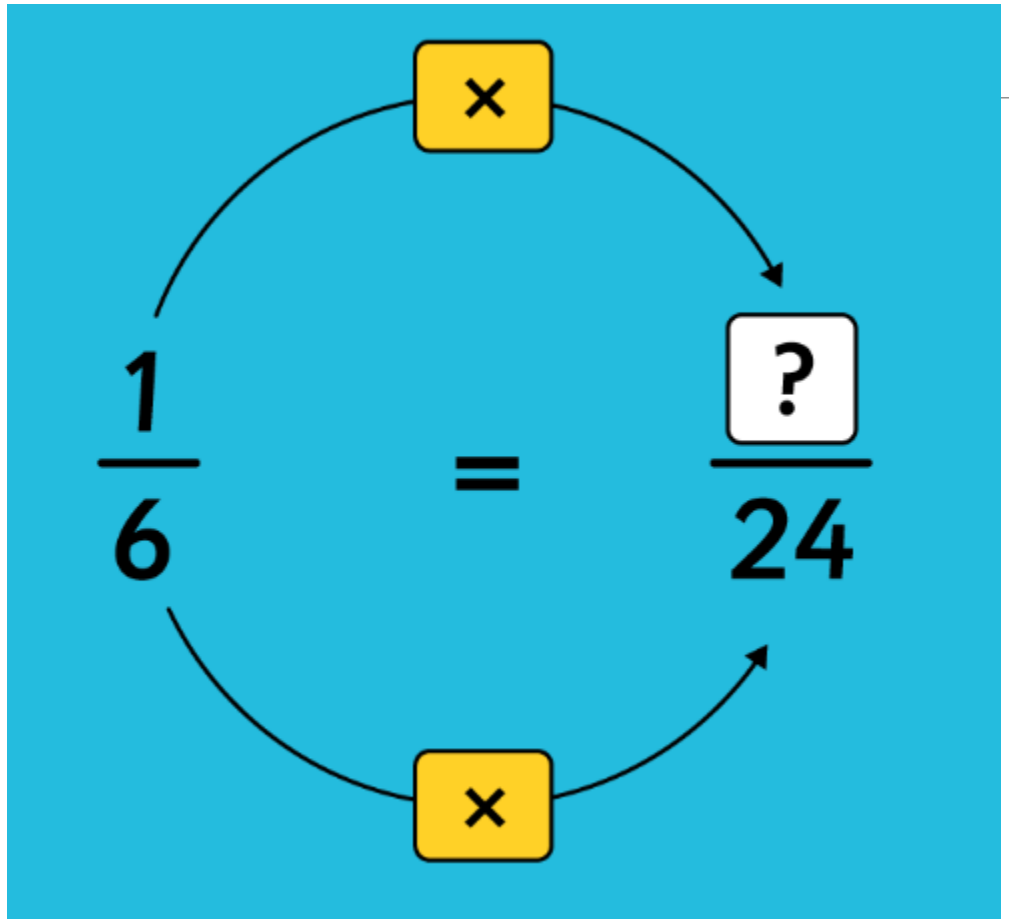
Equivalent Fractions



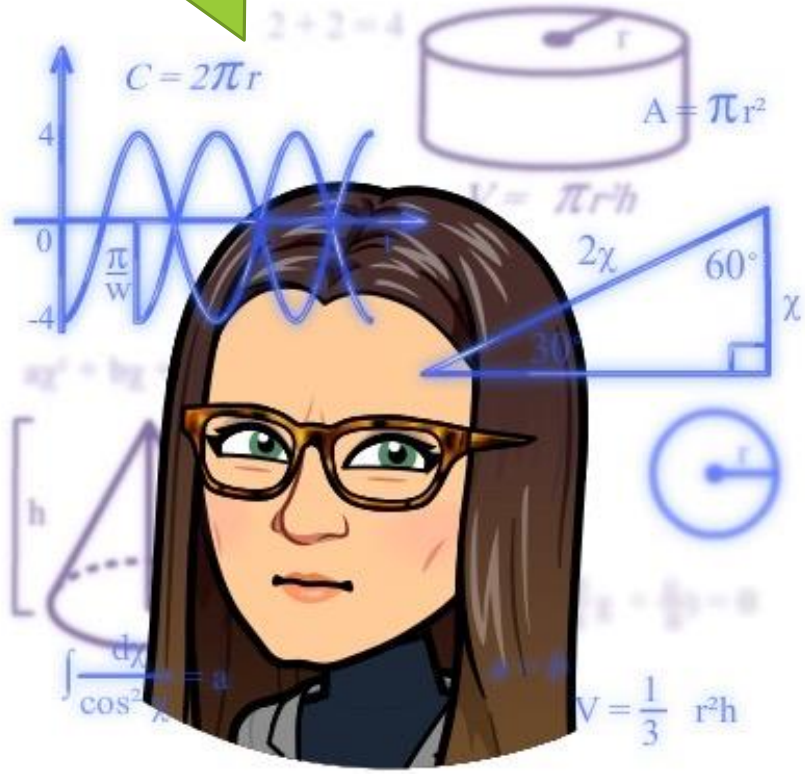
Which image shows the correct way to create an equivalent fraction?



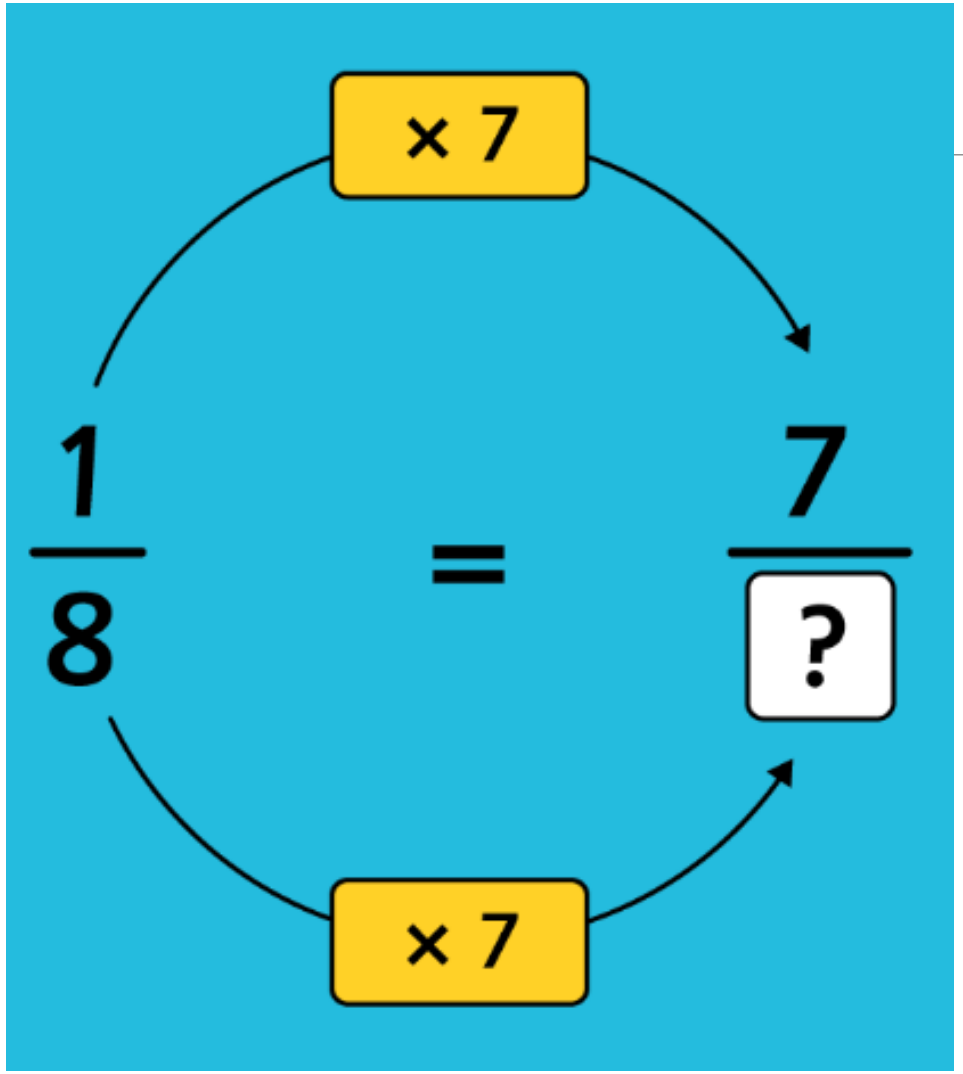
Equivalent Fractions



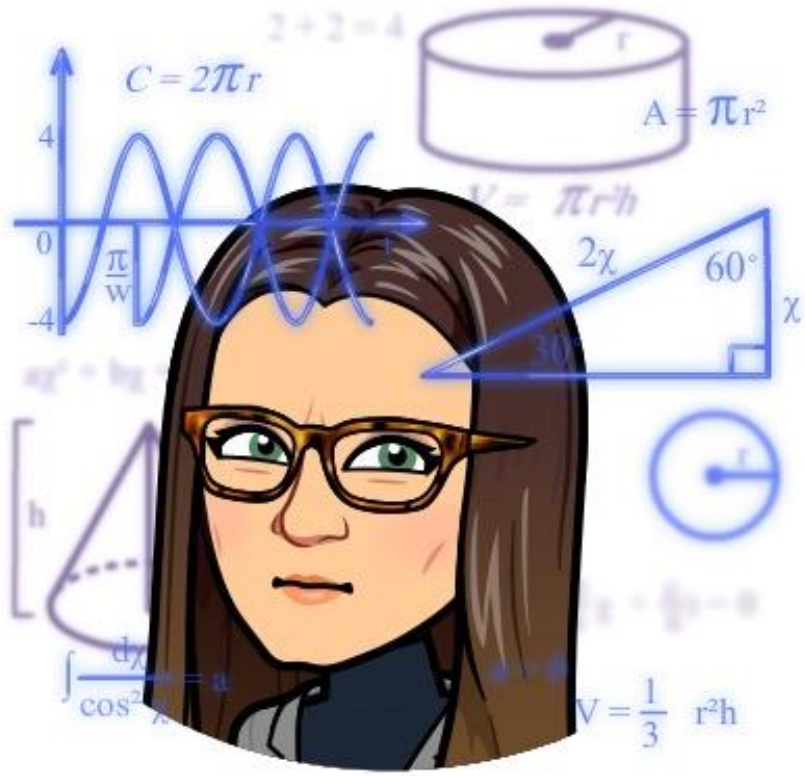
What is the missing numerator?



Equivalent Fractions



What is the missing denominator?



Equivalent Fractions

$$\frac{1}{10} = \frac{?}{?}$$

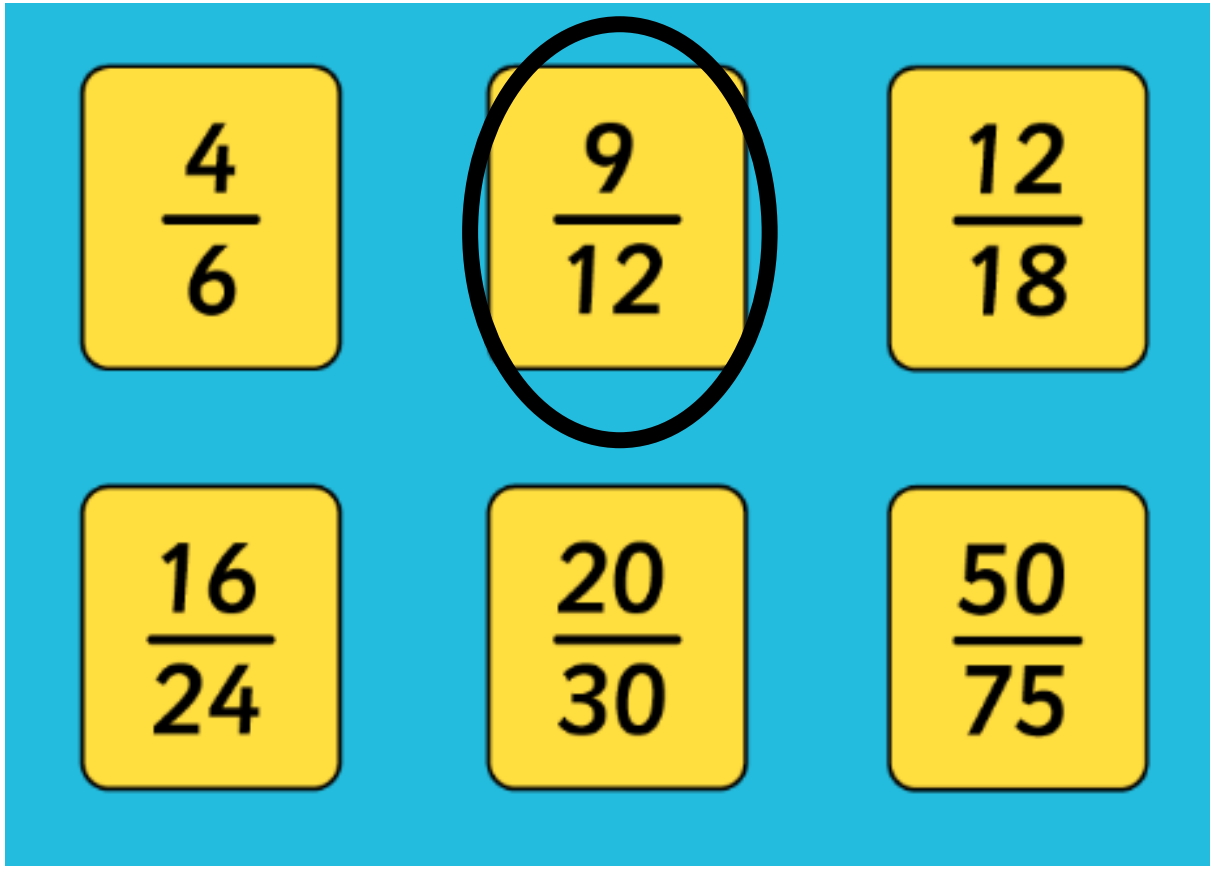
$\frac{9}{90}$ $\frac{5}{10}$ $\frac{35}{350}$ $\frac{9}{27}$ $\frac{2}{40}$ $\frac{2}{20}$

Which three of these fractions are equivalent to 1/10?

Which fraction is the odd one out?

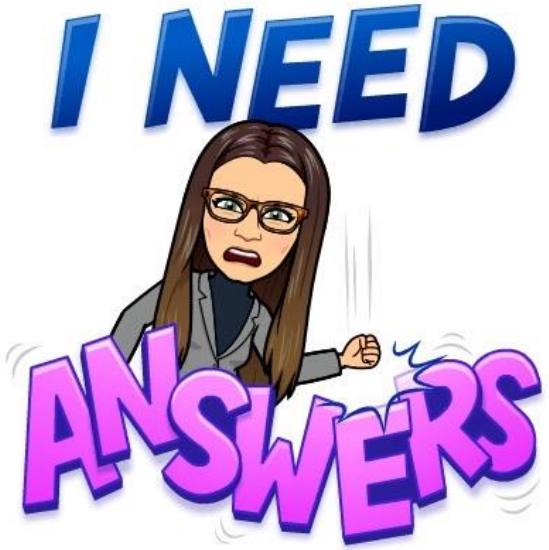
$\frac{4}{6}$	$\frac{9}{12}$	$\frac{12}{18}$
$\frac{16}{24}$	$\frac{20}{30}$	$\frac{50}{75}$

Which fraction is the odd one out?



Converting fractions to percentages

How do you convert fractions in to percentages?



$\frac{3}{10}$

$\frac{1}{4}$

$\frac{6}{20}$

$\frac{13}{50}$

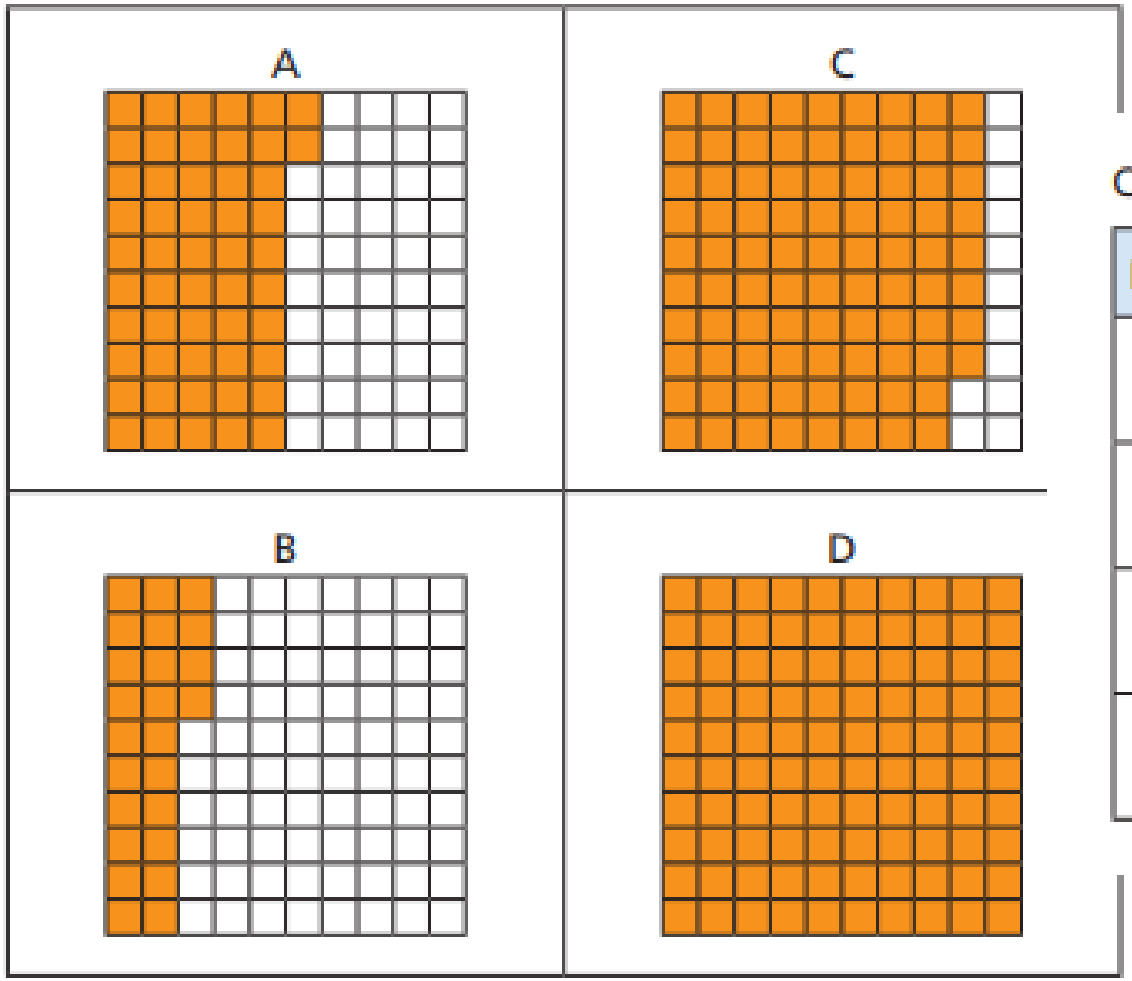
$\frac{1}{5}$

Day 3

This is the follow-up to your live lesson!

Group A – Wednesday
Group B – Thursday

1.



Complete the table.

Hundred square	Percentage	Fraction	Decimal
A		$\frac{52}{100}$	
B			
C			
D			

Day 3

This is the follow-up to your live lesson!

Group A – Wednesday
Group B – Thursday

2.

Which fractions are greater than or equal to 50%?

$\frac{10}{50}$	$\frac{4}{5}$	$\frac{50}{100}$
$\frac{30}{80}$	$\frac{1}{50}$	$\frac{70}{140}$

3. Convert the fractions to hundredths.

Give the decimal and percentage equivalents.

a) $\frac{150}{300}$

b) $\frac{25}{500}$

c) $\frac{48}{300}$

d) $\frac{18}{50}$

e) $\frac{13}{25}$

Day 4

Today is the follow-up to your live lesson!

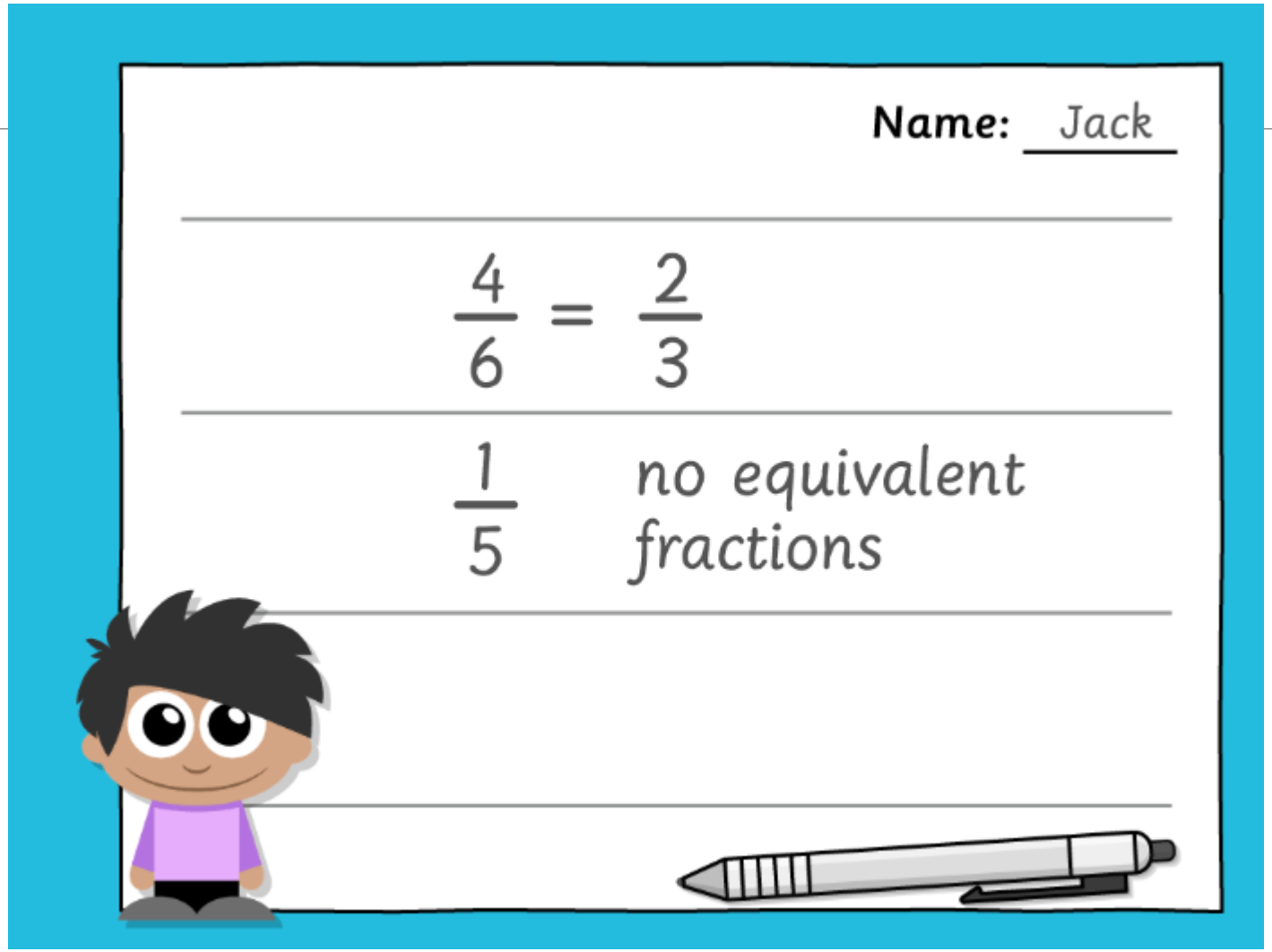
Group A – Thursday
Group B - Friday

- Yesterday, we looked at equivalent fractions. Watch the video then complete CGP maths book page 17 & page 18
- Complete CGP Maths p.20-21

- Answer the additional challenge questions on the next slides
- Check the answers to the additional questions

Group A – Thursday
Group B - Friday

A

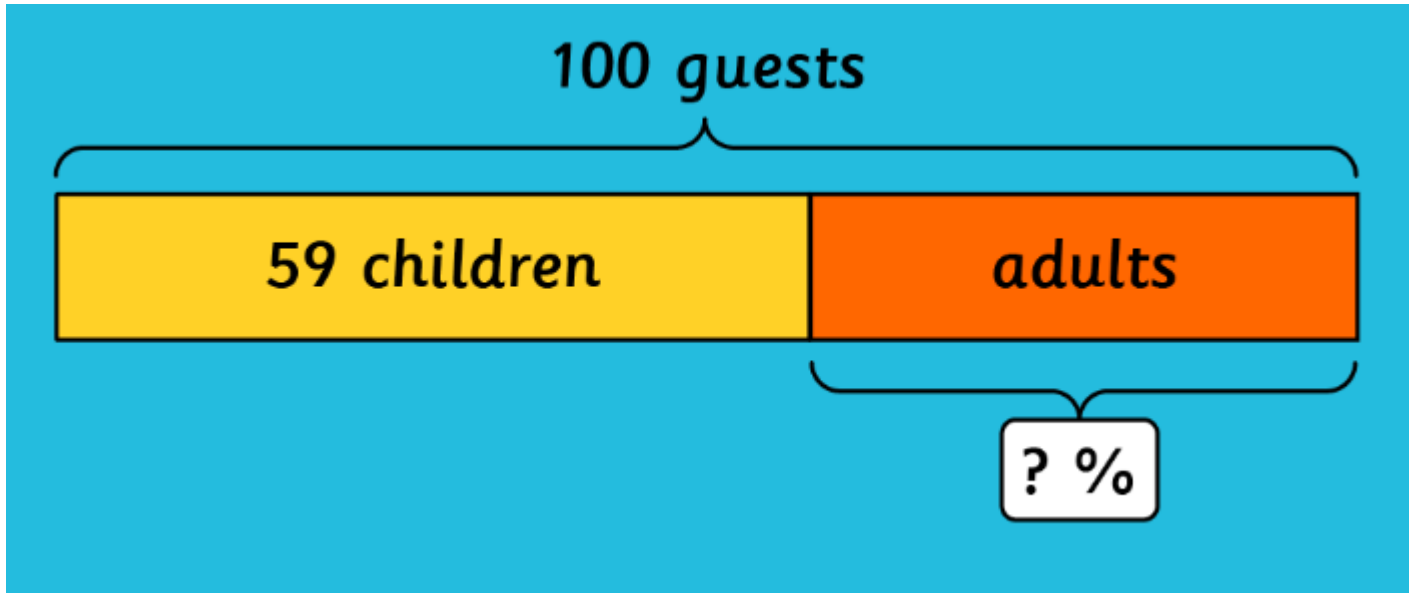


Jack says, "You can only find equivalent fractions for fractions that have an even numerator and denominator."
Explain why Jack is incorrect, and give at least one example to prove that he's incorrect.

CVPS

Group A – Thursday
Group B - Friday

B

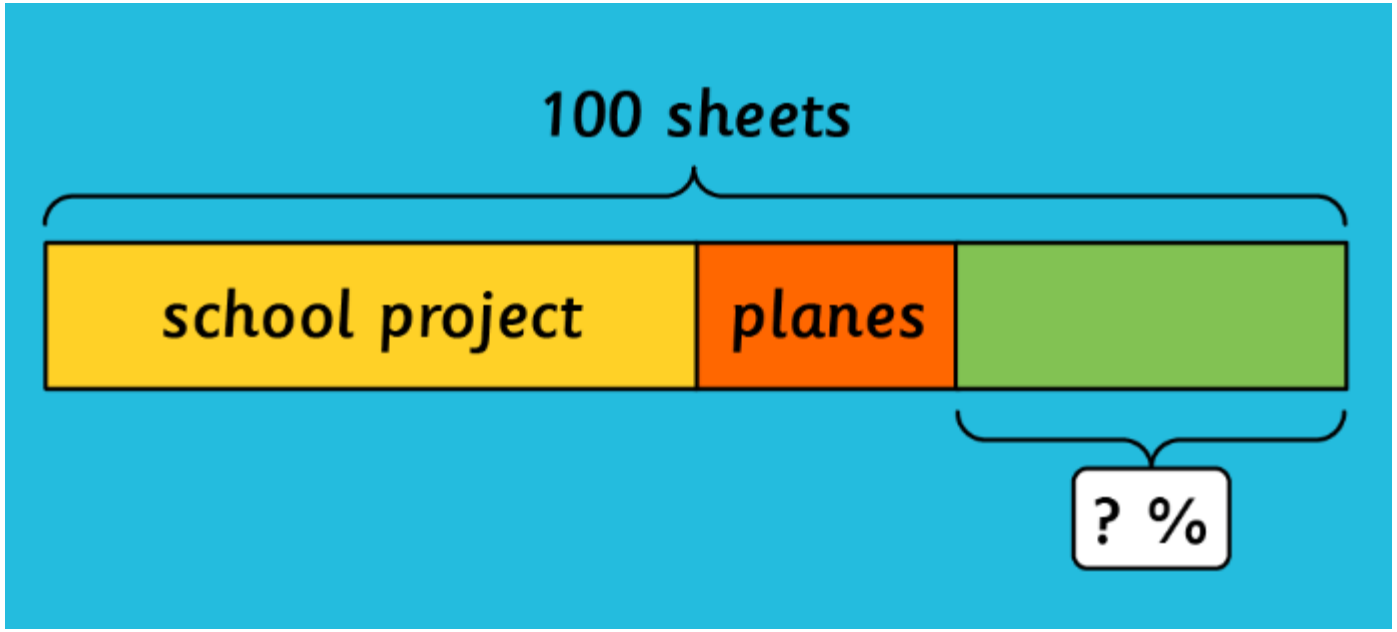


There are 100 guests at a party, and 59 of them are children. What percentage are adults?

CVPS

Group A – Thursday
Group B - Friday

C



Will buys a pack of 100 sheets of paper. He uses half of the pack to print a school project and 2/10 of the pack to make paper aeroplanes. What percentage of the pack does he have left?

Group A – Thursday
Group B - Friday

D

Proportion of cake eaten at a birthday party

name	proportion
Dale	$\frac{1}{5}$
George	10%
Sara	0.2
Ashleigh	$\frac{3}{10}$
Jordan	20%

Which three children ate the same amount of cake?

CVPS

Group A – Friday
Group B - Monday

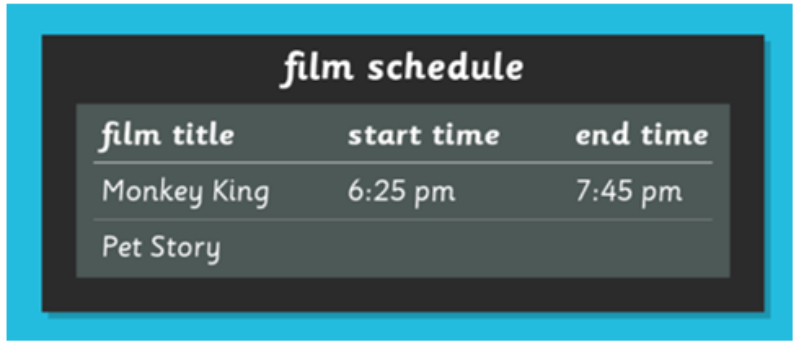
Catch-up Day!

- If you have not finished any of the maths activities this week, use your time today to catch up.
- If you have finished, use this extra time to work on:

  - Discovery
  - Votes for Schools
  - YUMU Charanga unit (music)

Answers – Day 1

1.



Two films have a total running time of 3 hours and 30 minutes. Monkey King starts at 6.25 p.m. and finishes at 7.45 p.m. How long is Pet Story in hours and minutes?

2 hours 10 mins

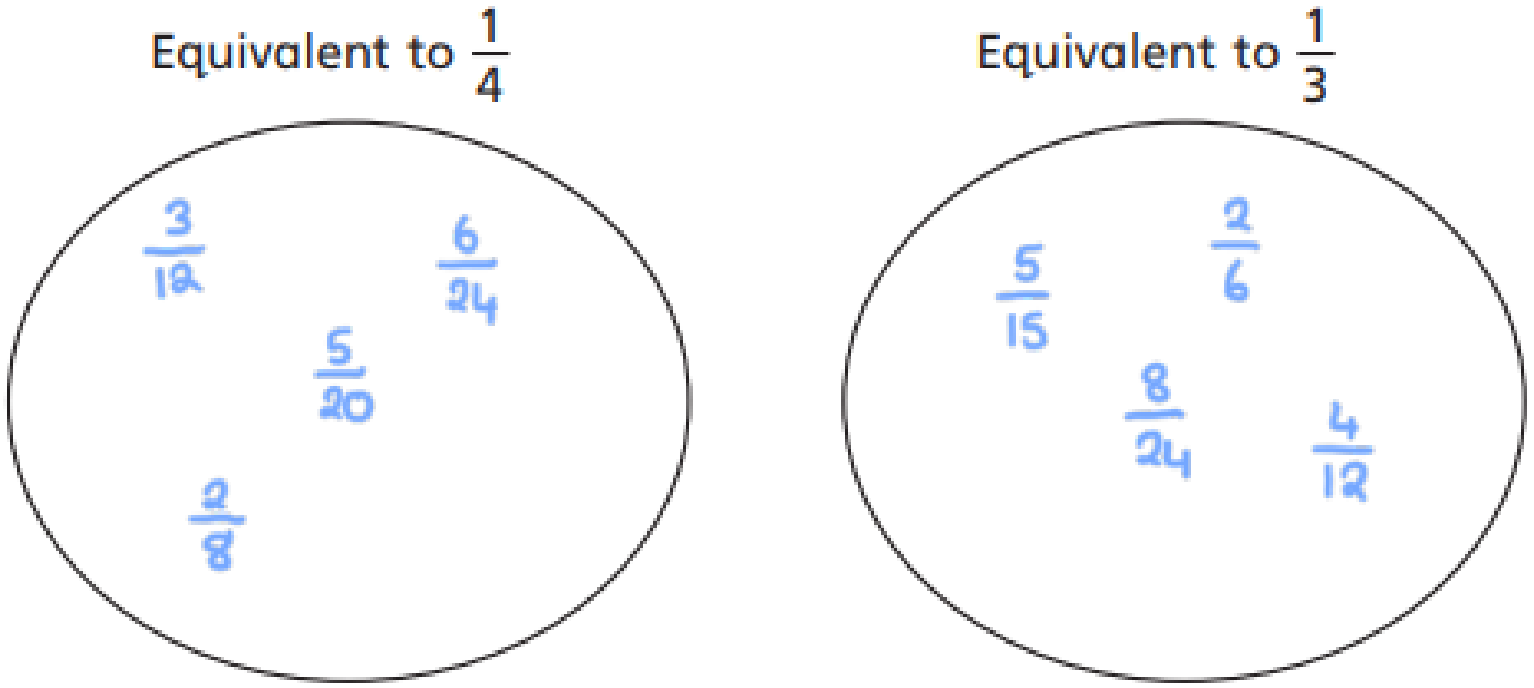
2.

A cruise ship departs in the morning on the 15th June and returns in the afternoon on the 20th June. Using the times shown in the image, how long did the cruise last for in **hours**?

125 hours

Answers – Day 2

a) Sort the fractions into the groups.



$\frac{5}{15}$	$\frac{2}{6}$	$\frac{3}{12}$	$\frac{6}{24}$	$\frac{8}{24}$	$\frac{5}{20}$	$\frac{4}{12}$	$\frac{2}{8}$

Answers – Day 2

Find three ways to make the fractions equivalent.

e.g.

a) $\frac{1}{2} = \frac{7}{14}$

$\frac{1}{8} = \frac{7}{56}$

$\frac{1}{100} = \frac{7}{700}$

b) $\frac{7}{7} = \frac{14}{14}$

$\frac{7}{1} = \frac{14}{2}$

$\frac{7}{10} = \frac{14}{20}$

c) $\frac{1}{7} = \frac{2}{14}$

$\frac{5}{7} = \frac{10}{14}$

$\frac{21}{7} = \frac{42}{14}$

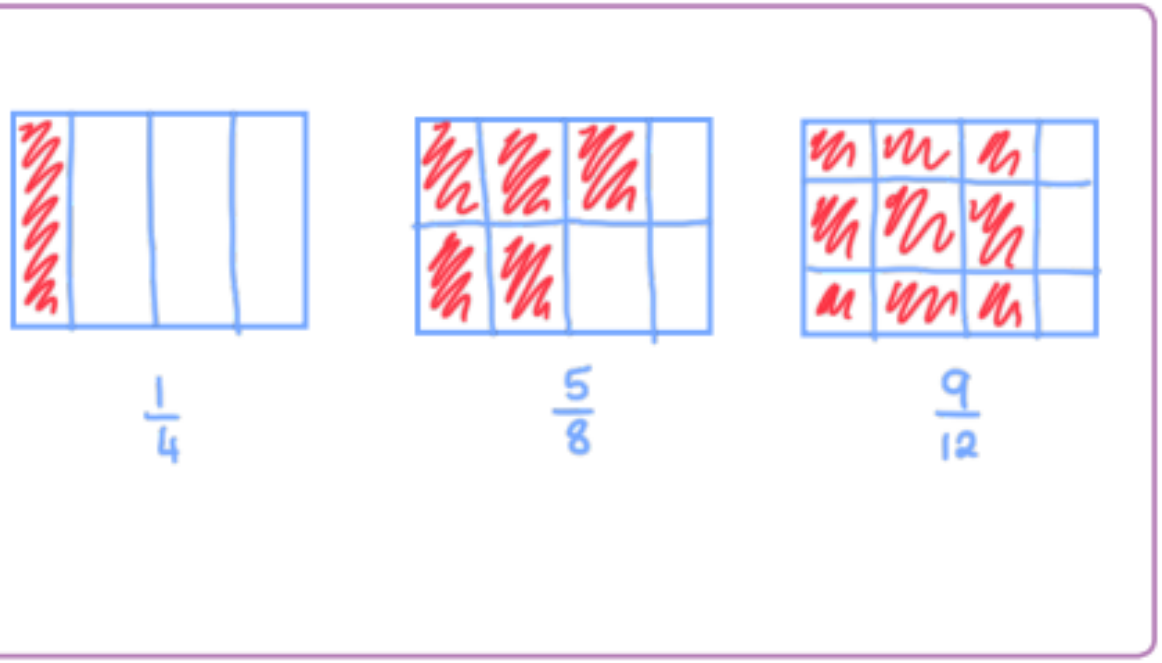
Answers – Day 2

Ron is finding equivalent fractions to $\frac{1}{4}$

$\frac{1}{4}$ is equivalent to $\frac{5}{8}$ and $\frac{9}{12}$

Do you agree with Ron? NO

Draw a diagram to support your answer.



Answers – Day 2

Here are some equivalent fractions.

Find the values of A, B and C.

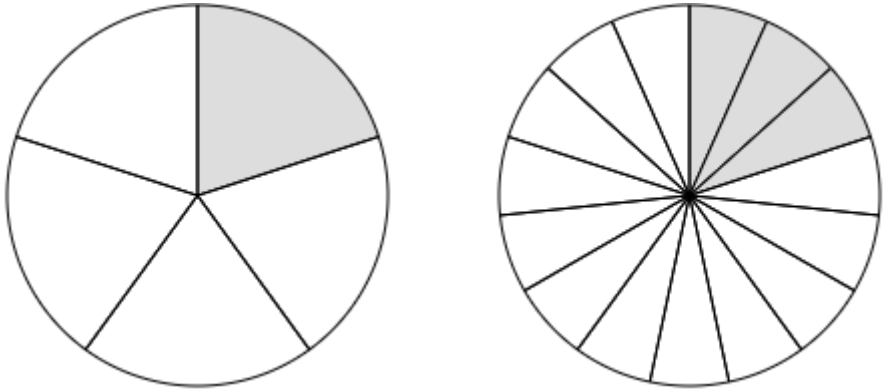
$\frac{A}{9}$ $\frac{3}{B}$ $\frac{2}{18}$ $\frac{C}{90}$

A = 1 B = 27 C = 10

Answers – Day 4

A

1/5 = 3/15 therefore Jack is incorrect. Although the numerator and denominator are odd, they are equivalent



B

41%

C

30%

D

Dale, Sara, Jordan