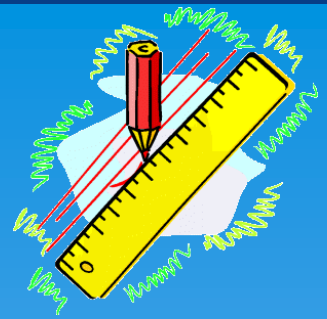


# STARTER QUESTIONS



Q1. Calculate  $64 \times 10000$

Q2. If 1 bar of chocolate costs 65p. How much will 1000 bars cost. Give your answer in £'s.

Q3. Round to 1 decimal place

(a) 4.56      (b) 7.254      (c) 9.244

Q4. Convert to 24 hrs clock

(a) Half past 4 in the afternoon.

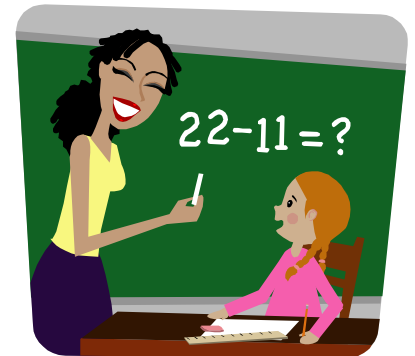
(b) Quarter to eight in the morning.

# Learning Objective

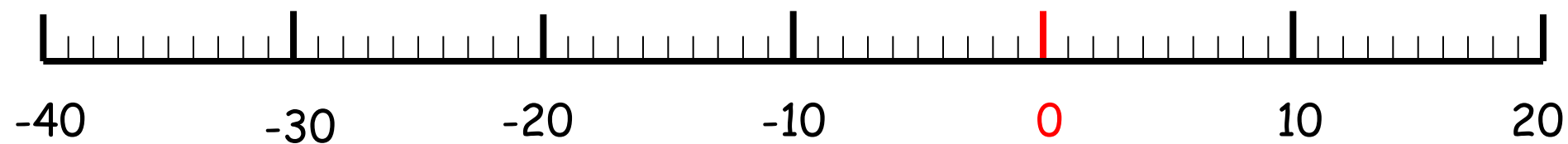
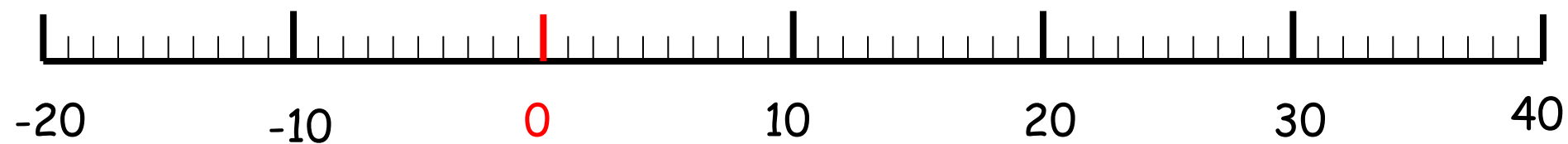
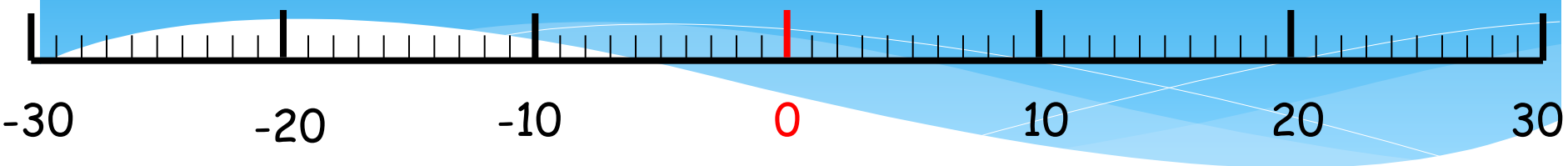
Revision:

Continue negative number sequences.

Place negative number on a number line.



# Number Lines Using Negative Numbers



# Number Lines Using Negative Numbers

20

10

0

-10

30

20

10

0

0

-10

-20

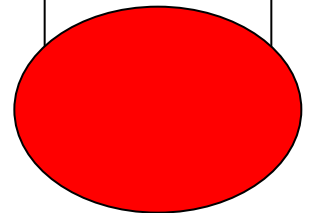
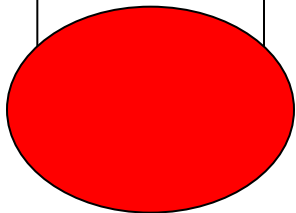
-30

10

0

-10

-20



# Negative Number Square

51	52	53	54	55	56	57	58	59	60
41	42	43	44	45	46	47	48	49	50
31	32	33	34	35	36	37	38	39	40
21	22	23	24	25	26	27	28	29	30
11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10
-9	-8	-7	-6	-5	-4	-3	-2	-1	0
-19	-18	-17	-16	-15	-14	-13	-12	-11	-10
-29	-28	-27	-26	-25	-24	-23	-22	-21	-20
-39	-38	-37	-36	-35	-34	-33	-32	-31	-30

# Number Sequences

Go

-35

-30

-25

-20

-15

-10

-5

0

5

Next  
Number

Go

30

24

18

12

6

0

-6

-12

-18

Next  
Number

Go

20

17

14

11

8

5

2

-1

-4

Next  
Number

Go

-1.2

-0.9

-0.6

-0.3

0

0.3

0.6

0.9

1.2

Next  
Number

# Number Sequences

Go

260

210

160

110

60

10

-40

-90

-140

Next  
Number

Go

-40

-33

-26

-19

-12

-5

2

9

16

Next  
Number

Go

0.25

0.5

0.75

1

1.25

1.5

1.75

2

2.25

Next  
Number

Go

1

2

4

8

16

32

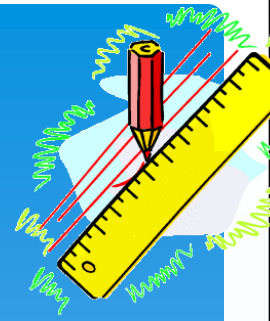
64

128

256

Next  
Number

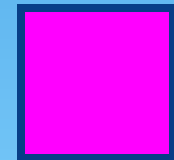
# STARTER QUESTIONS



Q1. Calculate 30% of £600

Q2. What is the time difference between 8.15am and 1:00pm

Q3. Solve  $6y - 16 = 20$

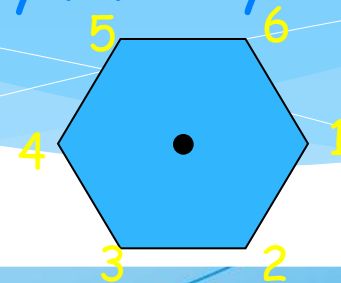


$P=20\text{cm}$   
 $A=25\text{cm}^2$

5cm

Q4. Find the perimeter and area of the square.

Q5. Find the order of rotational symmetry for the shape opposite.



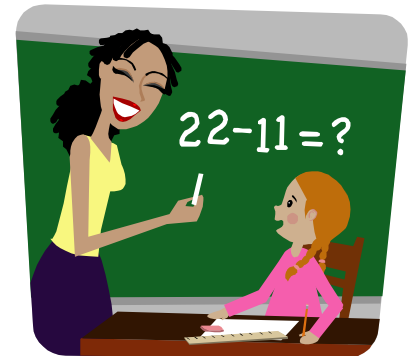


# Learning Objective

Revision:

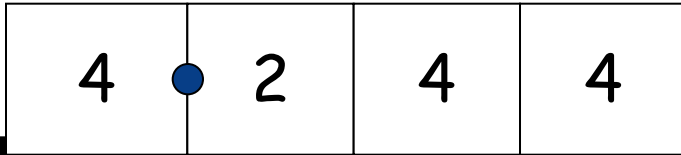
Order decimals to 1dp or 2dp.

Continue decimal number sequences.

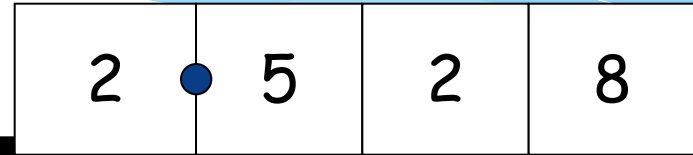


# Decimal Place Value

Click on the digit to show its value (*Click again to hide*)



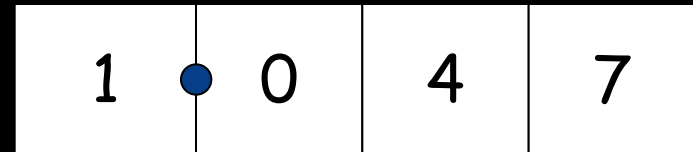
**4**   **0.2**   **0.04**   **0.004**  
*4 units*   *2/10*   *4/100*   *4/1000*



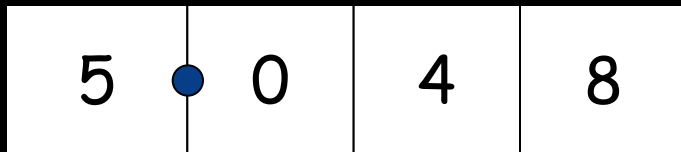
**2**   **0.5**   **0.02**   **0.008**  
*2 units*   *5/10*   *2/100*   *8/1000*



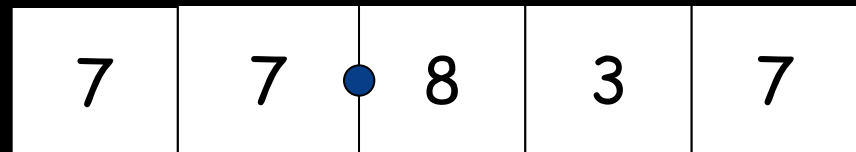
**3**   **0.9**   **0.07**   **0.008**  
*3 units*   *9/10*   *7/100*   *8/1000*



**1**   **0.0**   **0.04**   **0.007**  
*1 unit*   *0/10*   *4/100*   *7/1000*

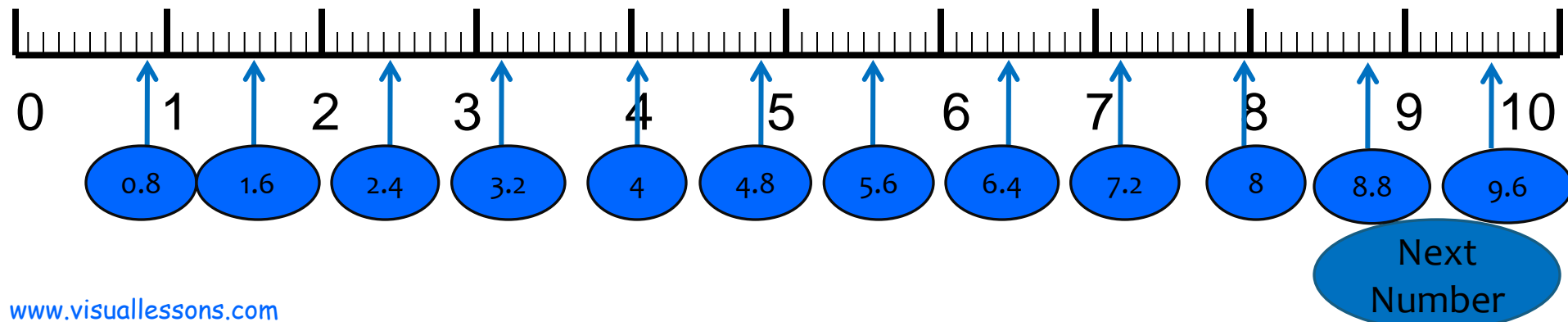
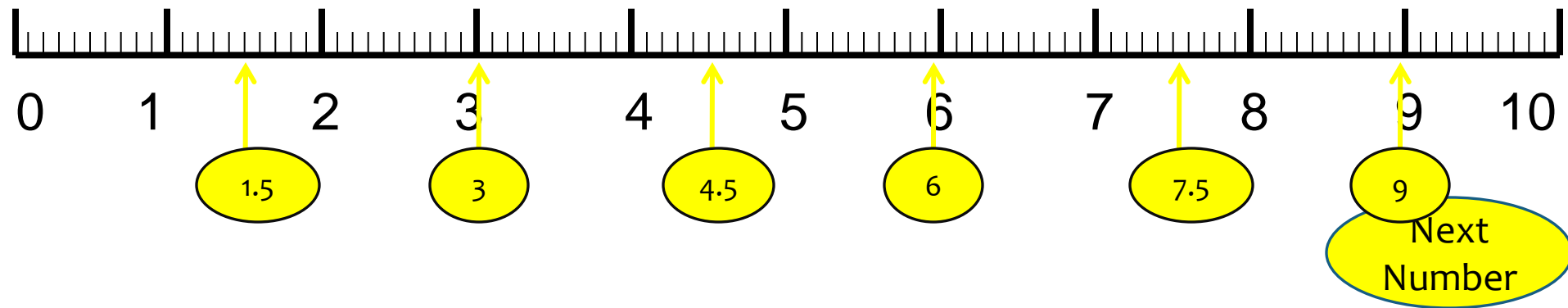
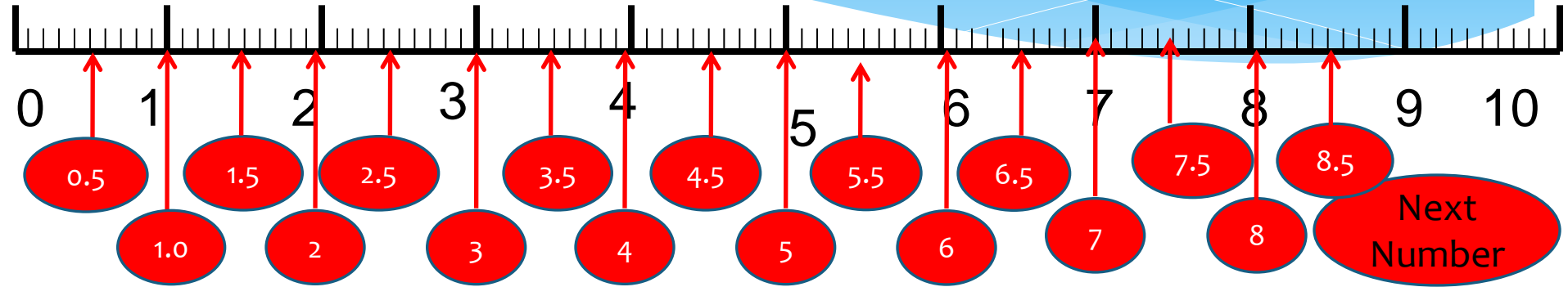


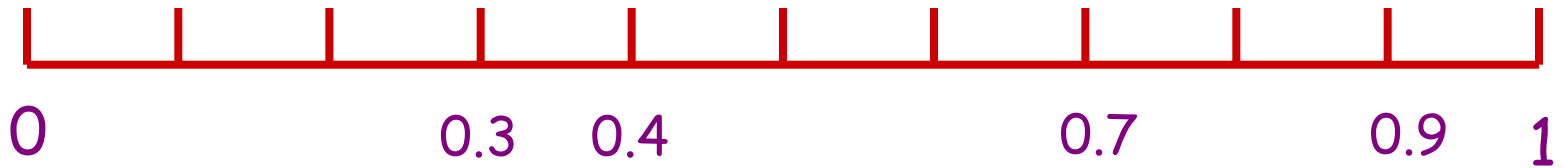
**5**   **0.0**   **0.04**   **0.008**  
*5 units*   *0/10*   *4/100*   *8/1000*



**70**   **7**   **0.8**   **0.03**   **0.007**  
*7 tens*   *7 units*   *8/10*   *3/100*   *7/1000*

# Counting - Using Number Lines





Can you guess  
where the  
decimals will  
appear on the  
number line?

0.2

0.6

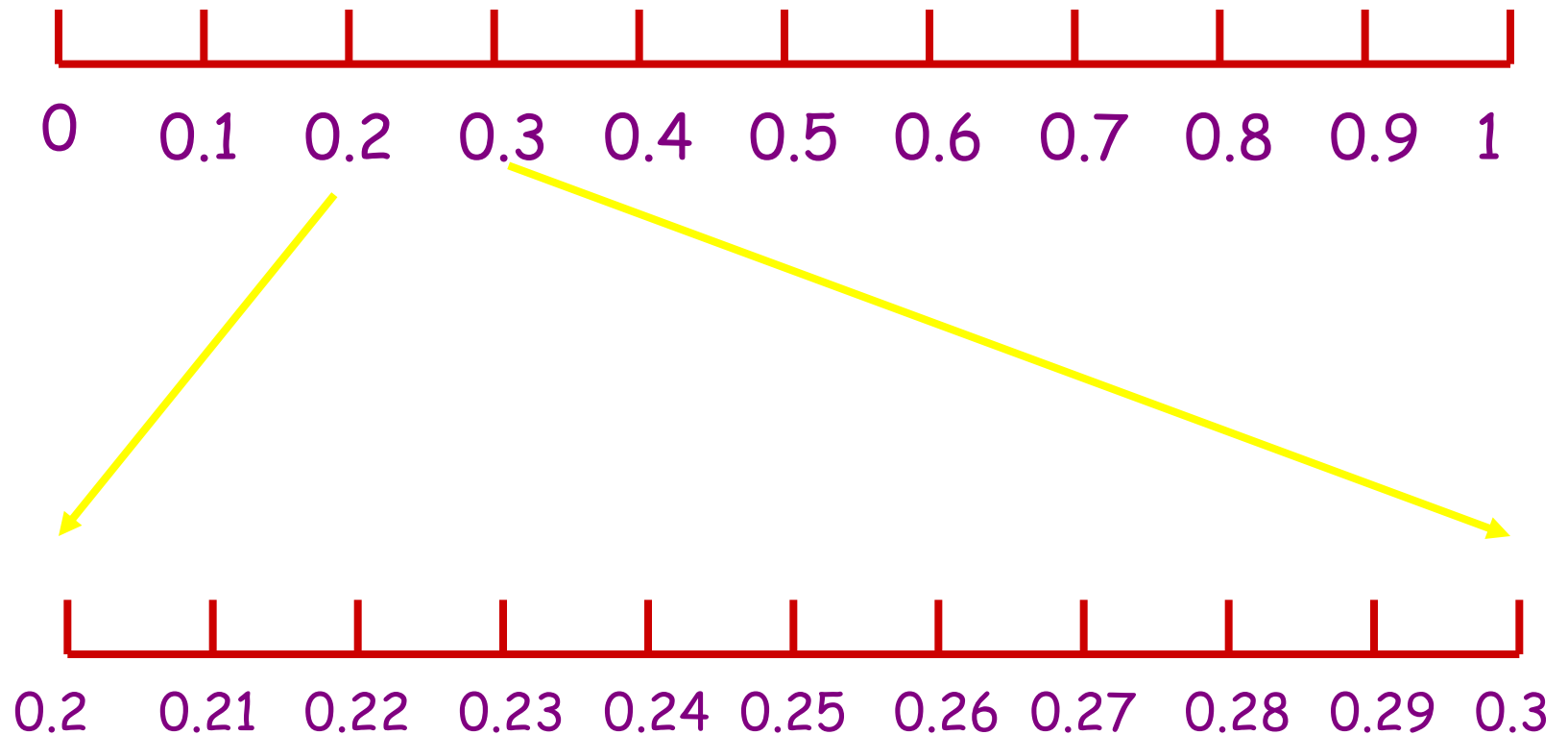
0.5

0.8

0.1

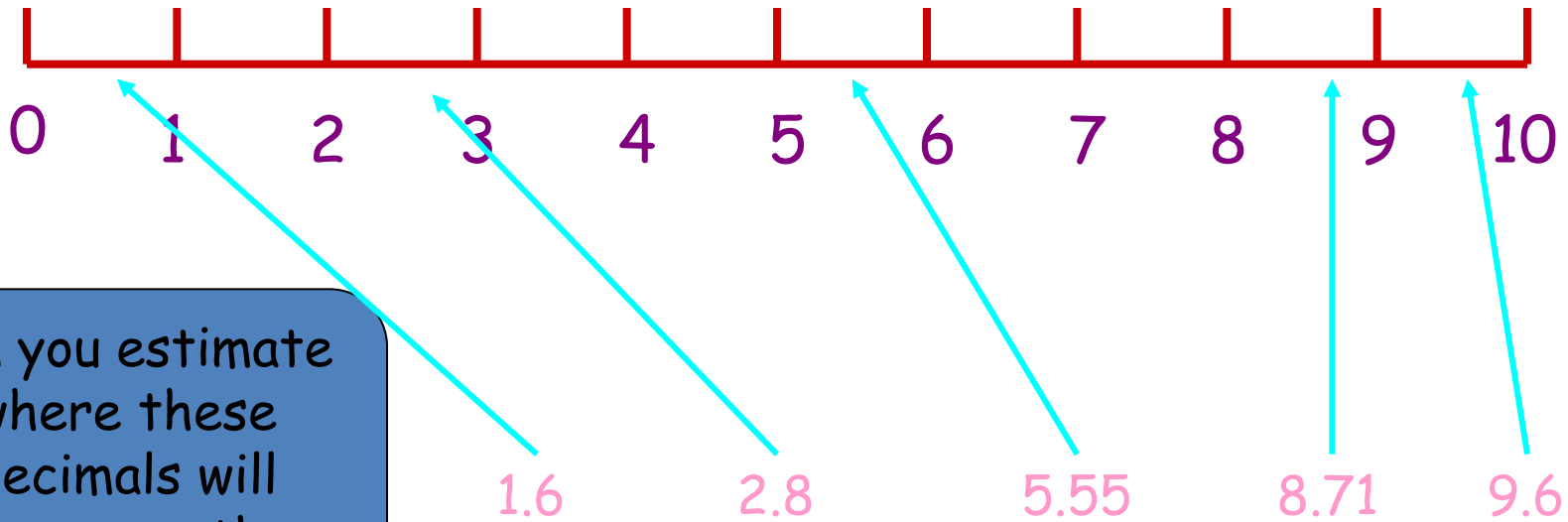


# Decimal numbers can become even smaller too!



These decimal numbers are all in-between 0.2 and 0.3

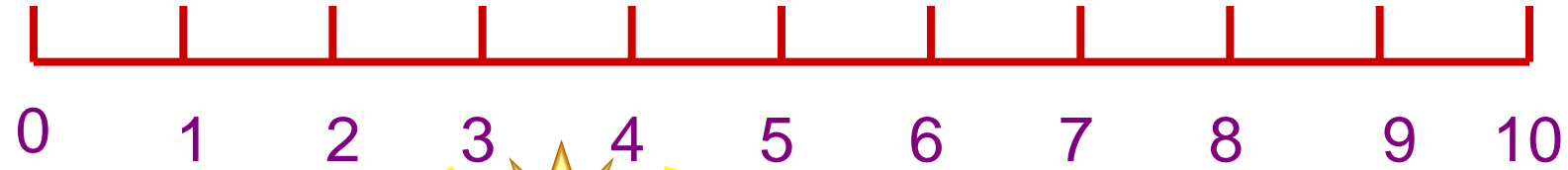




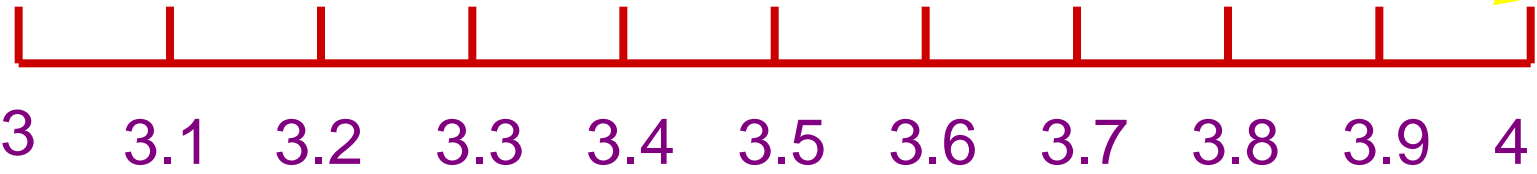
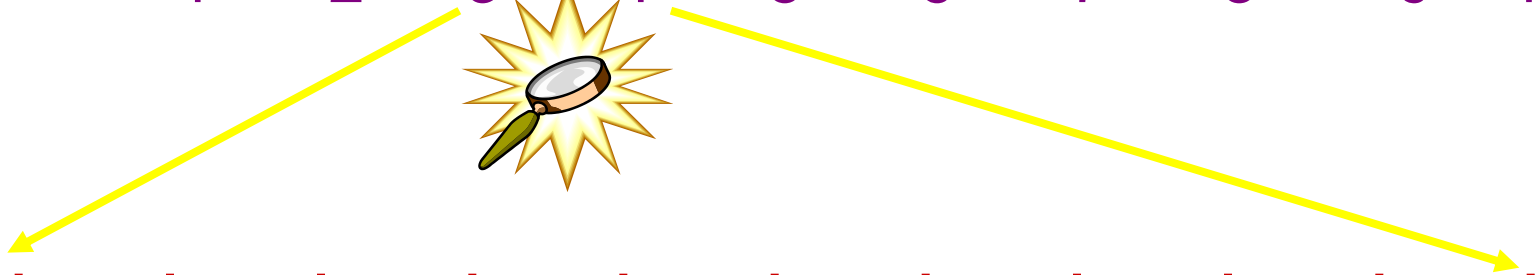
Can you estimate where these decimals will appear on the number line?



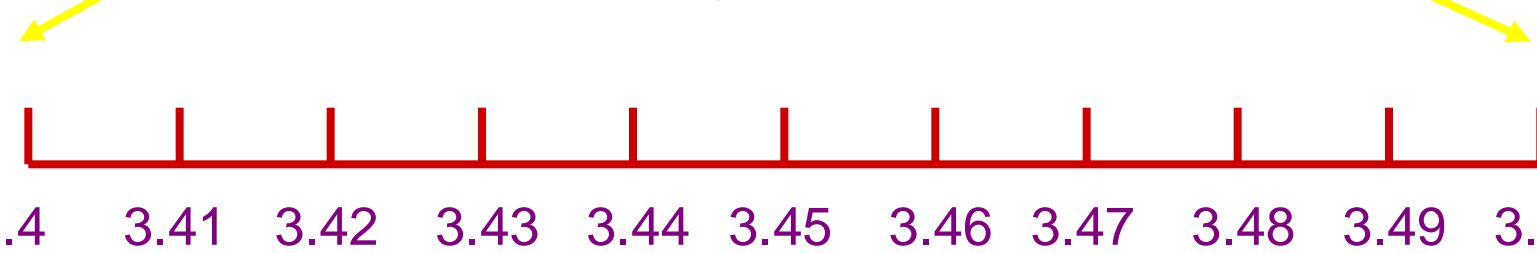
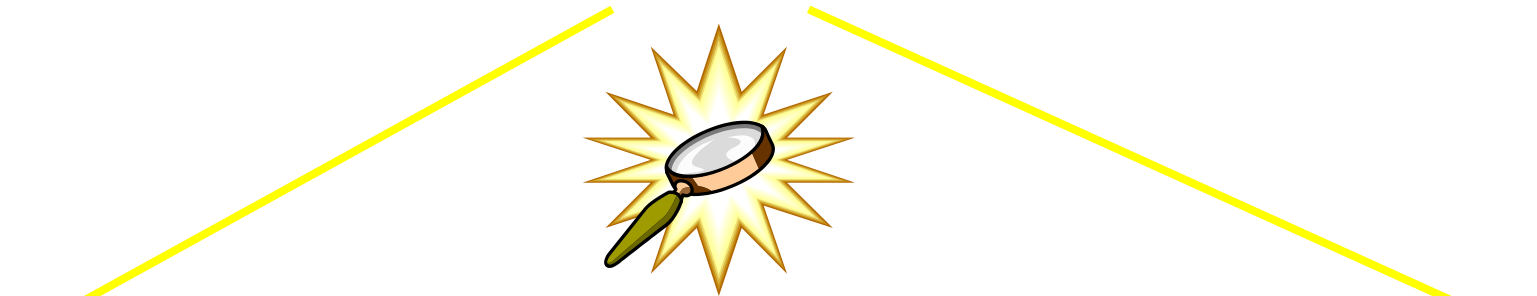
# Understanding Decimals



Whole  
Numbers



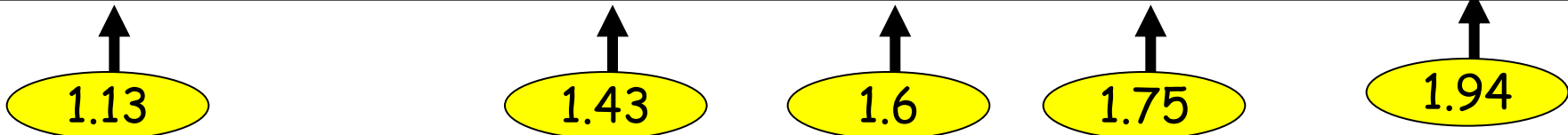
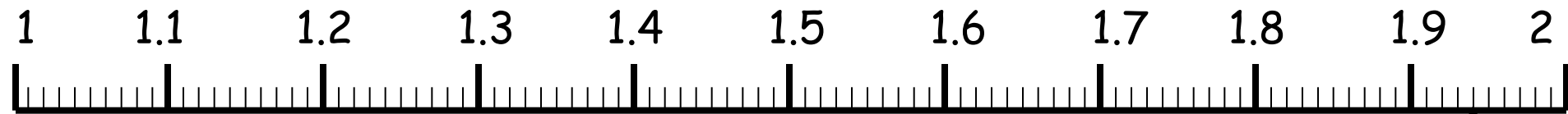
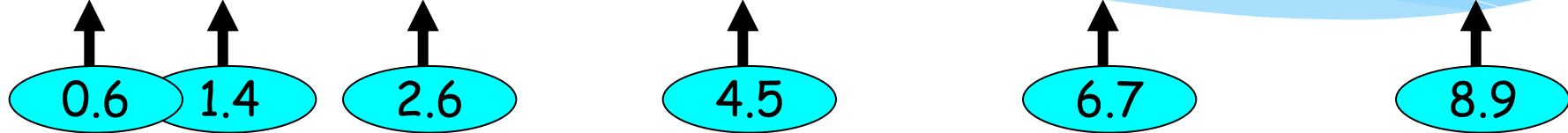
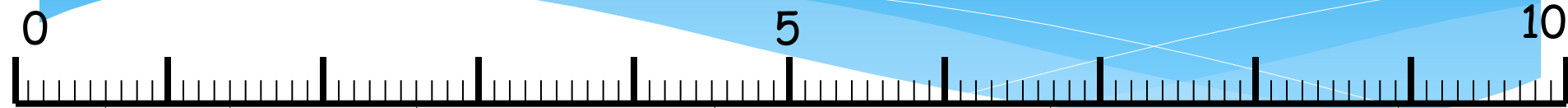
Tenths  
(1 decimal  
place)



Hundredths  
(2 decimal  
places)



Click on a decimal to place it on the number line



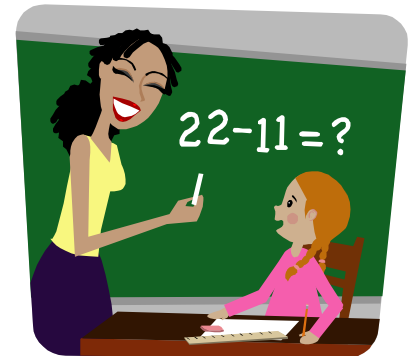


# Learning Objective

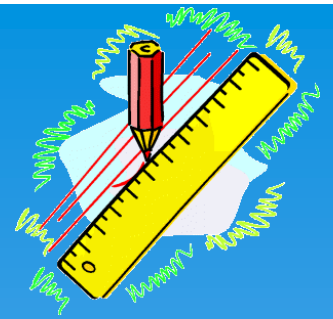
Revision:

Order decimals to 1dp or 2dp.

Continue decimal number sequences.



# STARTER QUESTIONS

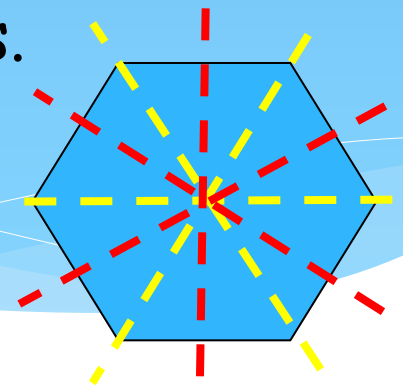


Q1. Round the following to the first decimal place.  
(a) 153.37 (b) 261.55

Q2. What is the time difference between 8.15am and 1:00pm

Q3. A pencil costs 22p. How much does a 1000 cost. Put your answer in £'s.

Q4. How many lines of symmetry does a regular hexagon have?



# Ordering Decimals

To order these decimal numbers we need to make sure the decimal places are lined up.

4.23	0	4	•	2	3	4 <sup>th</sup>
5.5	0	5	•	5	0	2 <sup>nd</sup>
4.05	0	4	•	0	5	5 <sup>th</sup> (smallest)
4.6	0	4	•	6	0	3 <sup>rd</sup>
40.1	4	0	•	1	0	1 <sup>st</sup> (largest)

CLICK!

# Ordering Decimals

Can you place these decimal numbers in order?

*Click on the decimal to put in in order.*

Largest

2 • 9 0

2<sup>nd</sup> Largest

2 • 5 3

3<sup>rd</sup> Largest

2 • 5 0

4<sup>th</sup> Largest

2 • 4 9

Smallest

0 • 9 8

2.53

0.98

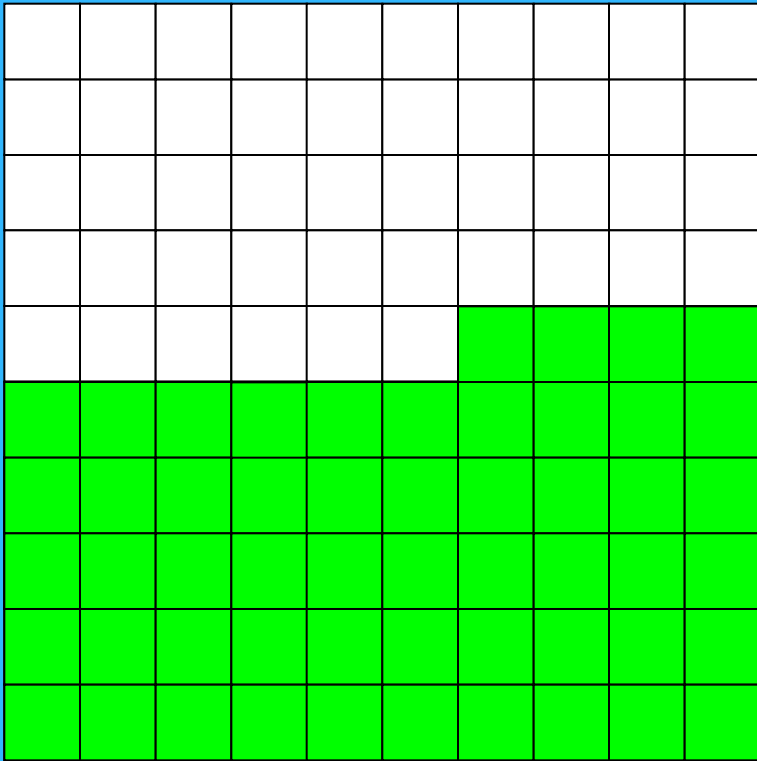
2.5

2.9

2.49

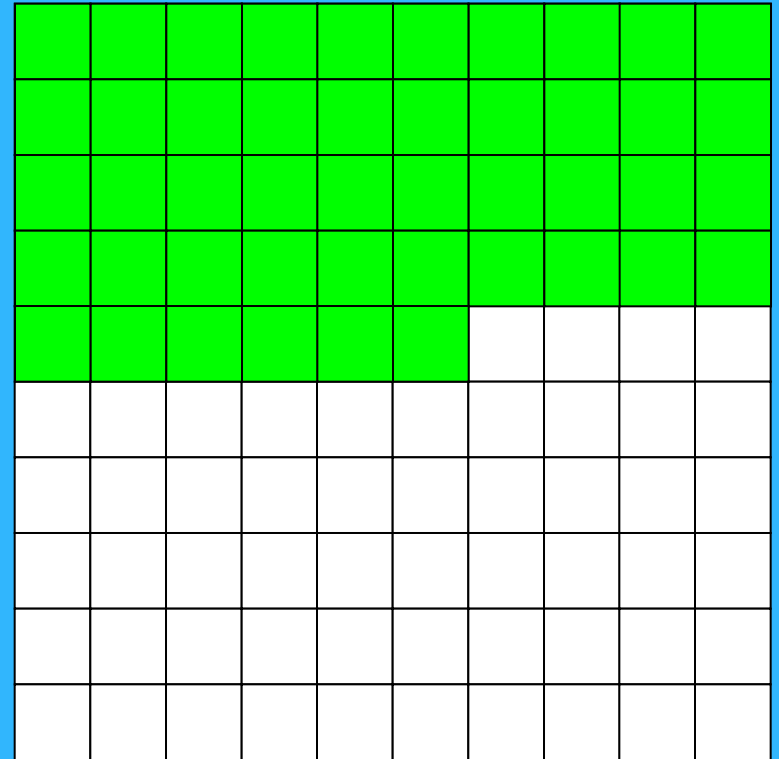
# Making 1 from 2 Decimal Place Numbers

*A Demonstration*



0.54

+

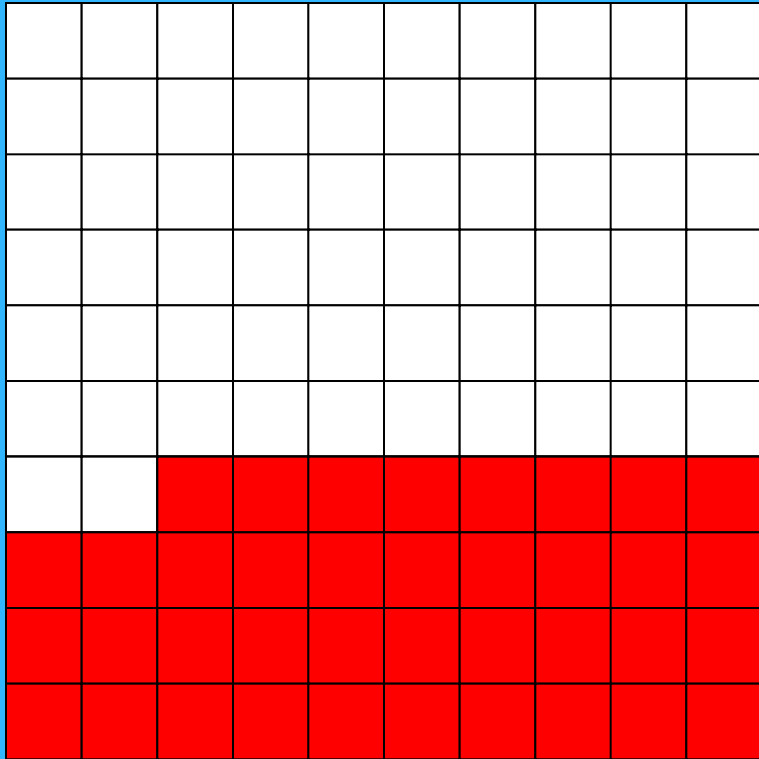


0.46



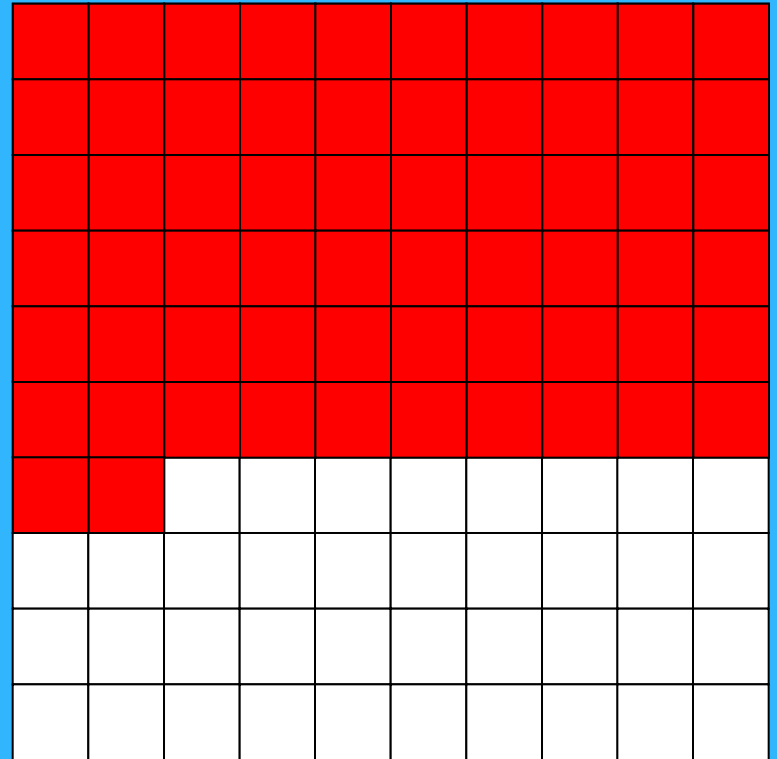
# Making 1 from 2 Decimal Place Numbers

*A Demonstration*



0.38

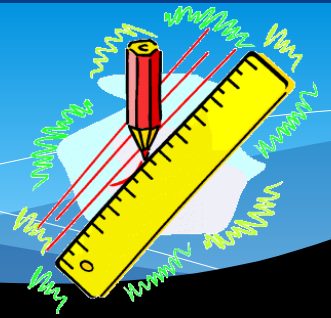
+



0.62



# STARTER QUESTIONS



- Q1. Calculate 10% of £270
- Q2. How many euros do I get for £20 if exchange rate is £1  $\Rightarrow$  1.5 €
- Q3. What is the time difference 09:28 and 10:50
- Q4. The answer to the question is 90. What is the question.

# Learning Objective

Revision:

Recognise equivalent fractions using a fraction wall.

Convert mixed numbers to improper fractions.

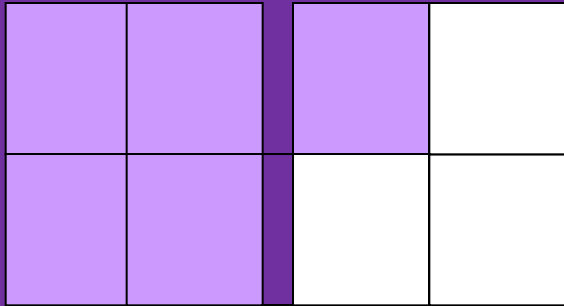
Find equivalent fractions.

Order fractions with different denominators.

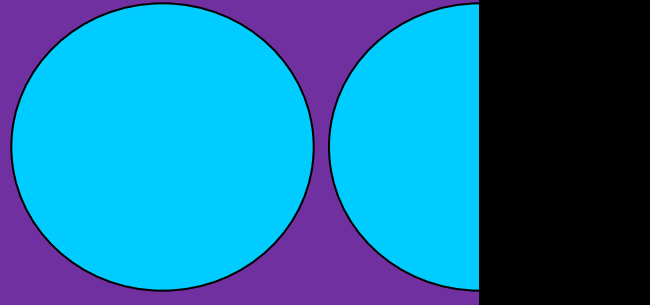


# Improper Fractions

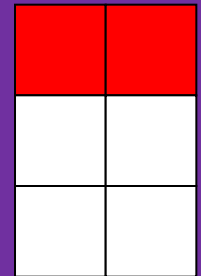
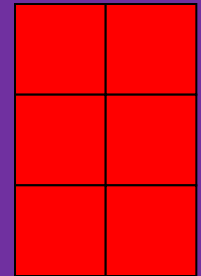
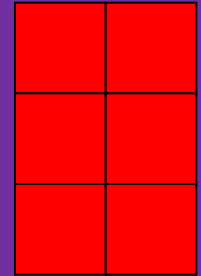
*Click on the shapes to reveal the improper fractions*



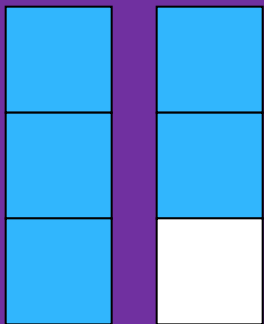
This is divided up into quarters. There are  $5/4$ .



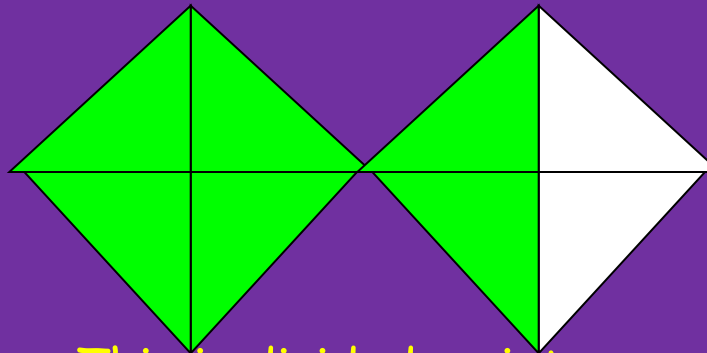
This is divided up into halves. There are  $3/2$ .



This is divided up into sixths. There are  $14/6$ .



This is divided up into thirds. There are  $5/3$ .



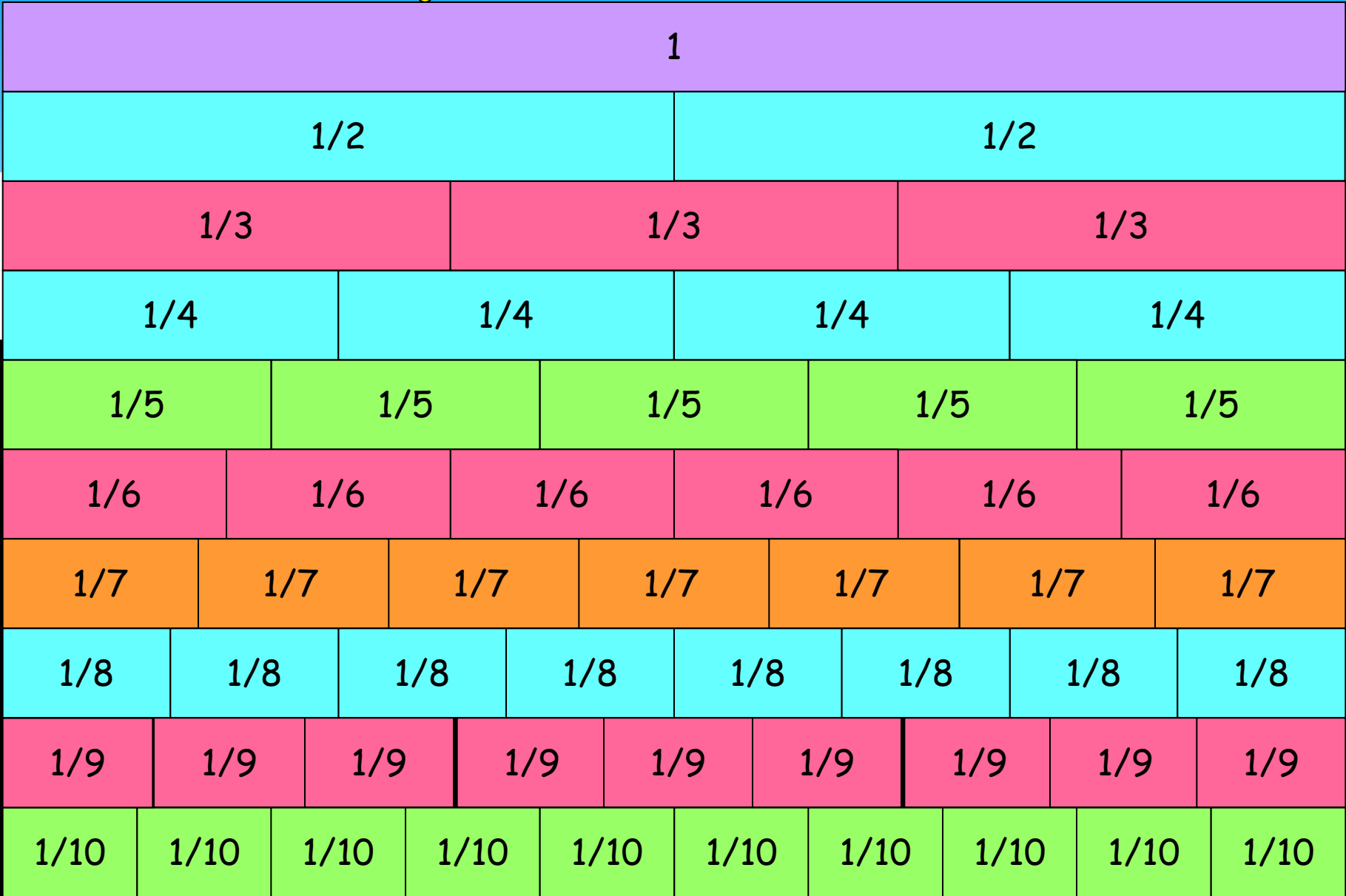
This is divided up into quarters. There are  $6/4$ .

$1/8$	$1/8$	$1/8$	$1/8$	$1/8$	$1/8$	$1/8$	$1/8$
$1/4$		$1/4$		$1/4$		$1/4$	
$1/2$				$1/2$			

$1/10$	$2/10$	$3/10$	$4/10$	$5/10$	$6/10$	$7/10$	$8/10$	$9/10$	$10/10$
$1/5$		$2/5$		$3/5$		$4/5$		$5/5$	

$1/12$	$2/12$	$3/12$	$4/12$	$5/12$	$6/12$	$7/12$	$8/12$	$9/12$	$10/12$	$11/12$	$12/12$
$1/6$		$2/6$		$3/6$		$4/6$		$5/6$		$6/6$	
$1/3$				$2/3$				$3/3$			

# Fraction Wall



# Finding Equivalent Fractions

*Click on a fraction to watch it being placed*

$1/3$

$1/2$

$1/4$

$3/4$

$2/6$

$12/16$

$4/16$

$2/4$

$7/21$

$5/15$

$3/12$

$7/14$

$15/20$

$6/24$

$5/10$

$4/12$

$9/12$

$3/6$

$5/20$

$6/8$

# Finding Equivalent Fractions

*Click on a fraction to watch it being placed*

$2/3$

$3/5$

$1/5$

$5/6$

$9/15$

$4/20$

$20/24$

$3/15$

$14/21$

$10/15$

$25/30$

$15/25$

$15/18$

$6/30$

$8/12$

$2/10$

$10/12$

$12/20$

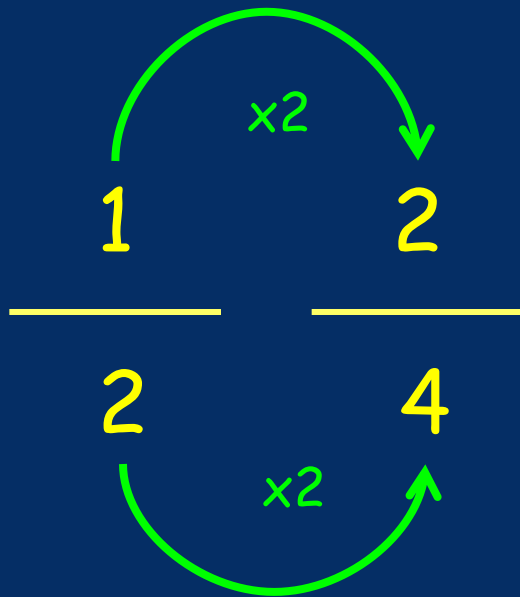
$6/9$

$6/10$

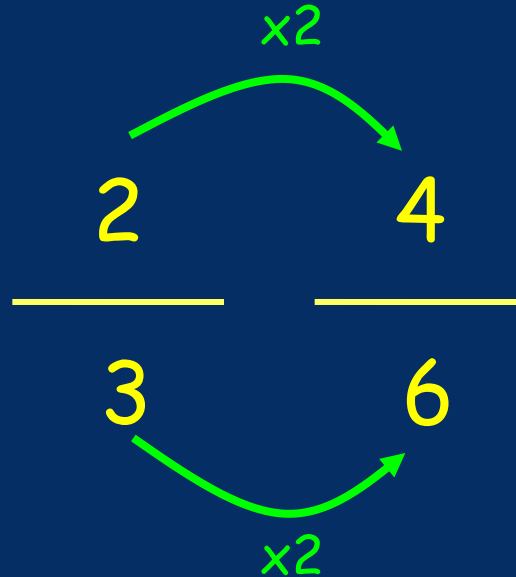
# Common Denominators

*Click on the statement to see why the fractions are the same*

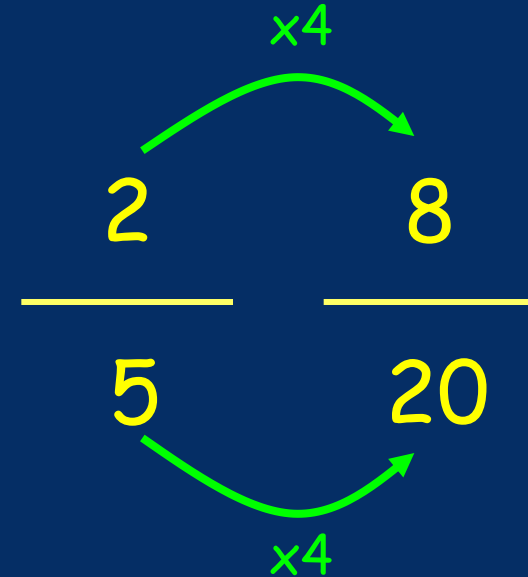
$1/2$  is the same as  $2/4$



$2/3$  is the same as  $4/6$



$2/5$  is the same as  $8/20$



# Ordering Fractions

*Click on the fractions to watch the steps*

The Fractions  
To Order

Change the  
Denominator

The 'Ordered'  
Fractions

$3/5$



$24/40$

$11/40$

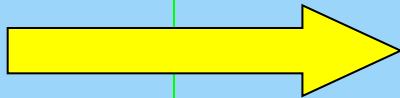
$4/10$



$16/40$

$3/10$

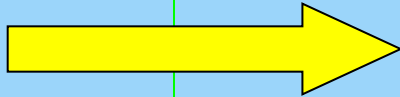
$7/20$



$14/40$

$7/20$

$11/40$



$11/40$

$4/10$

$3/10$



$12/40$

$3/5$

# Equivalent Decimals, Fractions & Percentages

*Click on a fraction to watch it being placed*

25%

0.4

$\frac{3}{4}$

$\frac{1}{2}$

$\frac{8}{20}$

75%

0.5

0.75

$\frac{5}{20}$

0.25

$\frac{2}{4}$

$\frac{12}{30}$

$\frac{5}{10}$

$\frac{15}{20}$

$\frac{3}{12}$

$\frac{9}{12}$

50%

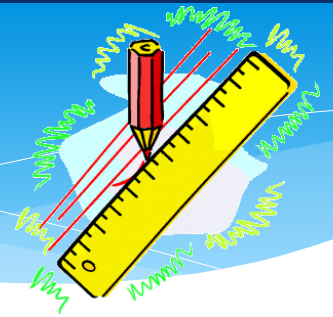
40%

$\frac{1}{4}$

$\frac{4}{10}$



# STARTER QUESTIONS



- Q1. Calculate 50% of £300
- Q2. How many euros do I get for £10 if exchange rate is £1  $\Rightarrow$  1.4 €
- Q3. What is the time difference 09:45 and 20:30?
- Q4. The answer to the question is 30. What is the question?

# Learning Objective

Revision:

Continue sequences including decimal number sequences.

5/8/2017

?

0.5

0.75

1

?

1.5

1.75

?

2.25

?

0

0.4

0.8

?

1.6

2

0 0.15

?

0.45

0.6

?

0.9

?

3

6

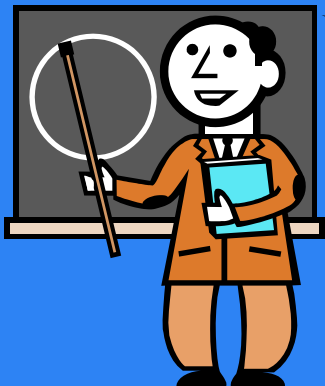
12

24

48

?

192



**Number Patterns.**  
Click the "?" to reveal the missing answers.

# Number Patterns

07:25

07:50

08:15

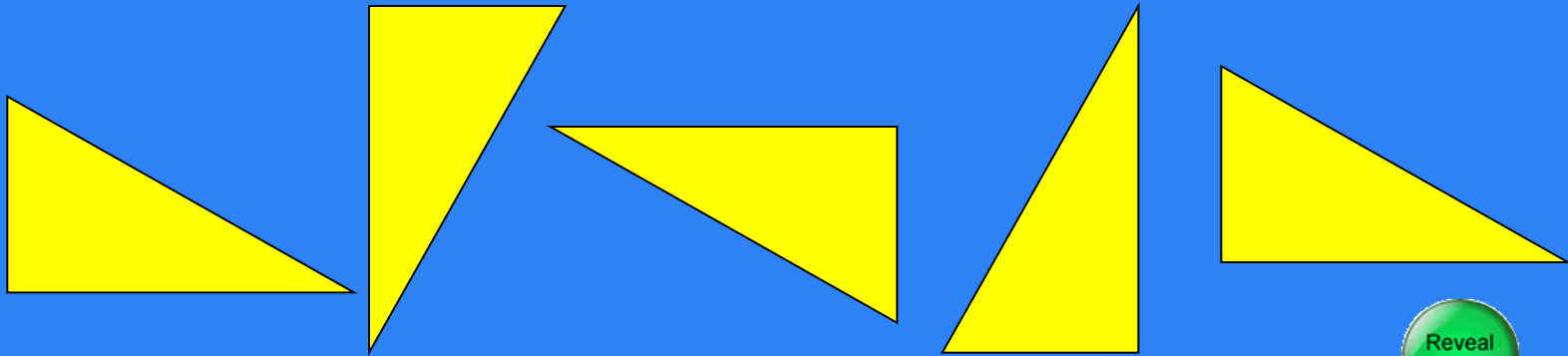
08:40

09:05

Reveal Answer

Adding 25 minutes each time!

What comes next?



Reveal Answer

The triangle rotates 90° each time!

December

January

March

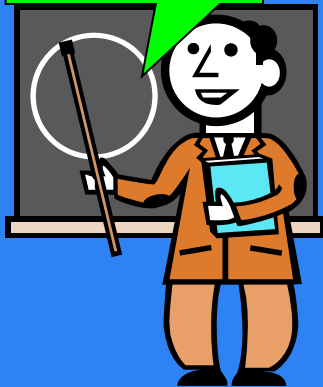
May

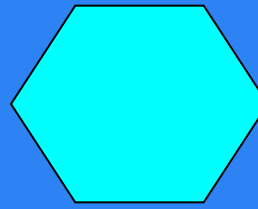
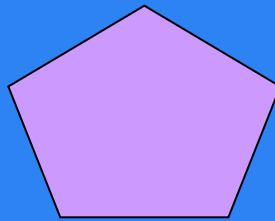
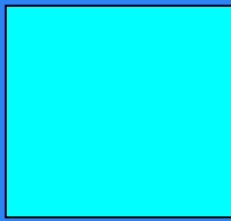
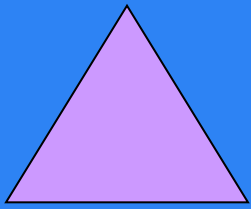
July

August

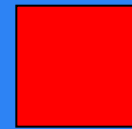
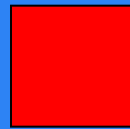
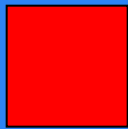
Months with 31 days!

Reveal Answer

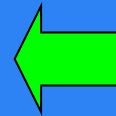
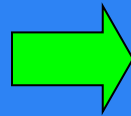
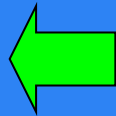
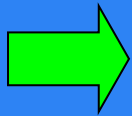




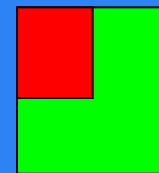
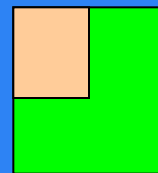
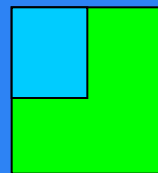
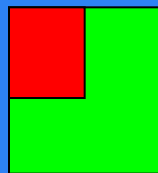
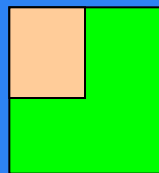
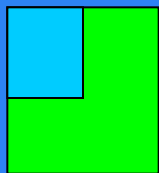
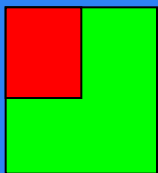
Reveal Answer



Reveal Answer



Reveal Answer



Reveal Answer

What comes next?