# Thursday $16^{\text {th }}$ April Understanding Percentages 

Circle the fraction and decimal which match the picture.


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# Remember the whole shape $=$ 100\% <br> $\square$ 

There are only 10 pieces but the whole thing is equal to $100 \%$.
So how much would each piece be as a percentage?

100 divided by 10 will give you each piece.

If there are 100 pieces and 45 are coloured that is easy $=45 \%$
or the fraction $45 / 100$ which $=$ the decimal 0.45 which is $45 \%$

## Varied Fluency 1

Match the grids to their percentages.
A

$78 \%$

C
 80\%

## Varied Fluency 1

Match the grids to their percentages.


## Varied Fluency 2

Write the percentage represented by the grids below.


## Varied Fluency 2

Write the percentage represented by the grids below.


## Varied Fluency 3

Represent $40 \%$ on the grids below.


## Varied Fluency 3

## Represent $40 \%$ on the grids below.

Various possible answers, for example:


## Reasoning 1

Circle the odd one out.

B

C

D $45 \%$

Explain your reasoning.

## Reasoning 1

Circle the odd one out.


Explain your reasoning.
C is the odd one out because...

## Reasoning 1

Circle the odd one out.


Explain your reasoning.
C is the odd one out because it represents $50 \%$. A, B and D represent $45 \%$.

# Remember to convert all the statements to the same form either fractions or decimals. 

Example
33 parts of $100=$

$$
33 / 100 \quad 0.33 \text { or } 33 \%
$$

## Problem Solving 1

Put the cards in order from largest to smallest.


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Put the cards in order from largest to smallest.


## Reasoning 2

## Alia and Ben are shown a bar model.



Alia says,

$$
9 \% \text { is shaded }
$$



Who is correct? Convince me.

## Reasoning 2

## Alia and Ben are shown a bar model.



Alia says,

## $9 \%$ is shaded



Who is correct? Convince me.
Ben is correct because...

## Alia and Ben are shown a bar model.



Alia says,

$$
9 \% \text { is shaded }
$$



## Who is correct? Convince me.

Ben is correct because the bar model is split into 10 parts.
Percentages are the number of parts out of 100 so 9 needs to be multiplied by 10 to find the percentage.

## Developing

1a. Match the grid to the correct percentage.


1b. Match the grid to the correct percentage.


2a. True or false?
The grid below represents $70 \%$.


3a. Represent $50 \%$ on the grid below.


2b. True or false?
The grid below represents $41 \%$.

$\widehat{\square}$
3b. Represent $90 \%$ on the grid below.


1a. Circle the odd one out.
A

B

C $41 \%$

Explain your reasoning.

2a. Put the cards in order from smallest to largest.


1b. Circle the odd one out.

A


B


C $60 \%$

Explain your reasoning.
吅

2b. Put the cards in order from largest to smallest.


## Expected

4a. Match the grids to their percentages.


B


70\%
$60 \%$
$63 \%$

4b. Match the grids to their percentages.
A $\square$ $40 \%$
B


5b. Write the percentage represented by the grids below.
A

B


6a. Represent $80 \%$ on the grids below.
A

^
B


6b. Represent $60 \%$ on the grids below.


## Greater Depth

4a. Circle the odd one out.
A

c पा1ा11ロ
B

D $\mathbf{8 2 \%}$
Explain your reasoning.

## 衾

5a. Put the cards in order from smallest to largest.


4b. Circle the odd one out.

B


C
पा11111

D $60 \%$

Explain your reasoning.

5b. Put the cards in order from largest to smallest.


## Greater Depth

7a. Match the grids to their percentages.

$68 \%$


25\%

C $\square$ $40 \%$

8a. Write the percentage represented by the grids below.
A

B

A

B


7b. Match the grids to their percentages.


B

$60 \%$

C $\square$ $35 \%$

8b. Write the percentage represented by the grids below.

9a. Represent $70 \%$ on the grids below.
A


9b. Represent $30 \%$ on the grids below.


7a. Circle the odd one out.
A


B

C $\square$ D $48 \%$

Explain your reasoning.

8a. Put the cards in order from smallest to largest.


7b. Circle the odd one out.
A

B

C

D $60 \%$

Explain your reasoning.

8b. Put the cards in order from largest to smallest.


