Varied Fluency
Step 8: Understand Percentages

National Curriculum Objectives:

Mathematics Year 5: (5F11) Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal

Differentiation:

Developing Questions to support the understanding of percentages. Includes representing percentages using hundred grids.

Expected Questions to support the understanding of percentages. Includes representing percentages using hundred and ten grids.

Greater Depth Questions to support the understanding of percentages. Includes representing percentages using multiples of ten.
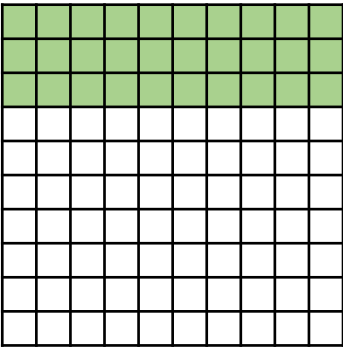
More Year 5 Decimals and Percentages resources.

Did you like this resource? Don't forget to review it on our website.

Understand Percentages

Understand Percentages

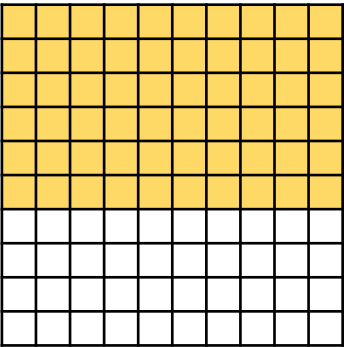**1a.** Match the grid to the correct percentage.

40%

50%

30%

VF

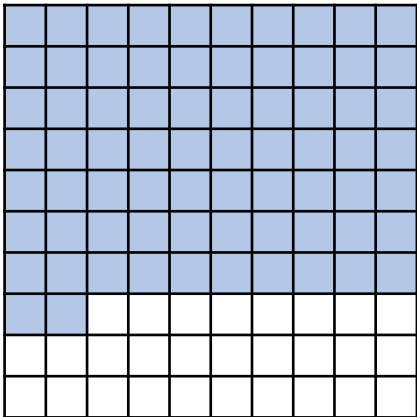**1b.** Match the grid to the correct percentage.
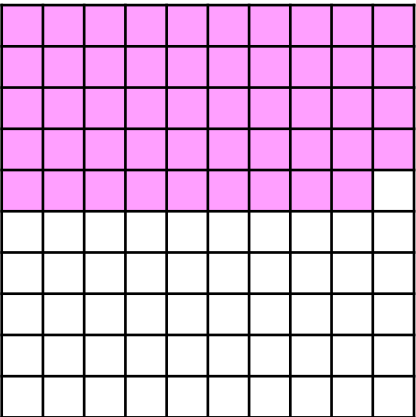
50%

60%

70%

VF

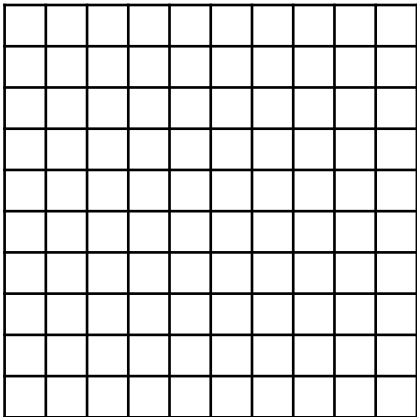**2a.** True or false?

The grid below represents 70%.

VF

2b. True or false?

The grid below represents 41%.

VF

3a. Represent 50% on the grid below.

VF

3b. Represent 90% on the grid below.

VF

classroomsecrets.co.uk

Varied Fluency – Understand Percentages – Year 5 Developing

Understand Percentages

Understand Percentages

4a. Match the grids to their percentages.

A [grid: 7 of 10 shaded pink]   70%

B [10×10 grid partially shaded blue]   60%

C [grid: 6 of 10 shaded yellow]   63%

4b. Match the grids to their percentages.

A [grid: 5 of 10 shaded green]   40%

B [10×10 grid partially shaded orange]   50%

C [grid: 4 of 10 shaded purple]   45%

5a. Write the percentage represented by the grids below.

A [vertical grid shaded green]   B [10×10 grid partially shaded blue]

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

A [vertical grid shaded pink]   B [10×10 grid partially shaded blue]

6a. Represent 80% on the grids below.

A [empty vertical grid]   B [empty 10×10 grid]

6b. Represent 60% on the grids below.

A [empty vertical grid]   B [empty 10×10 grid]

classroomsecrets.co.uk

Varied Fluency – Understand Percentages – Year 5 Expected
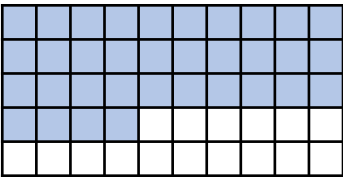
Understand Percentages

7a. Match the grids to their percentages.
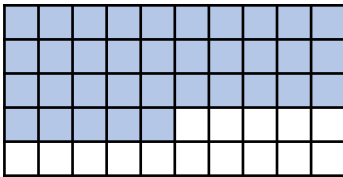
A

68%

B

25%

C

40%

GD

VF
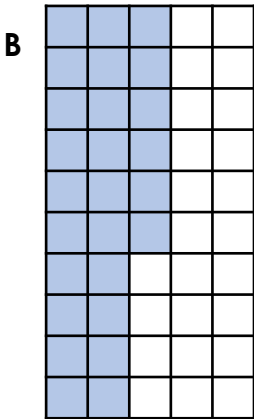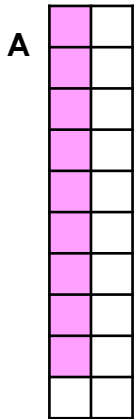
7b. Match the grids to their percentages.
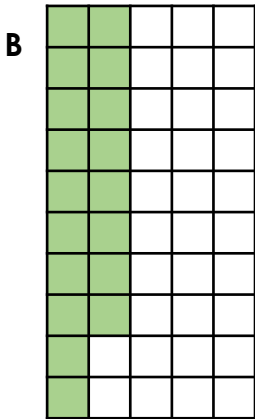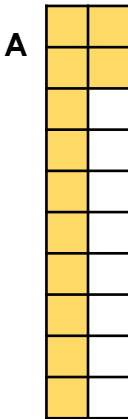
A

70%

B

60%

C

35%

GD

VF

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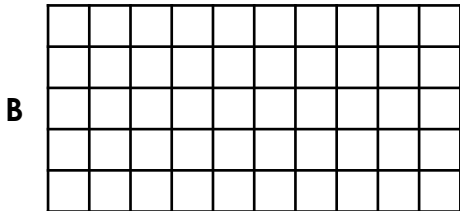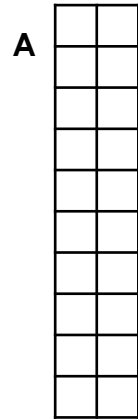
A

B

GD

VF

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

A

B

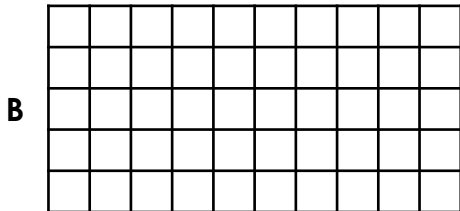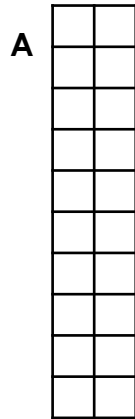GD

VF

9a. Represent 70% on the grids below.

A

B

GD

VF

9b. Represent 30% on the grids below.

A

B

GD

VF

Varied Fluency
Understand Percentages

Developing

1a. 30%
2a. False, the grid represents 72%.
3a. 50 blocks shaded

Developing

1b. 60%
2b. False, the grid represents 49%.
3b. 90 blocks shaded

Expected

4a. A – 60%, B – 63%, C – 70%
5a. A – 50%, B – 47%
6a. A – 8 blocks shaded, B – 80 blocks shaded

Expected

4b. A – 50%, B – 45%, C – 40%
5b. A – 70%, B – 76%
6b. A – 6 blocks shaded, B – 60 blocks shaded

Greater Depth

7a. A – 25%, B – 68%, C – 40%
8a. A – 45%, B – 52%
9a. A – 14 blocks shaded, B – 35 blocks shaded

Greater Depth

7b. A – 35%, B – 70%, C – 60%
8b. A – 60%, B – 36%
9b. A – 6 blocks shaded, B – 15 blocks shaded

classroomsecrets.co.uk
Varied Fluency – Understand Percentages ANSWERS