**Emily says,**

> 45% is bigger than $\frac{4}{5}$

Is Emily correct? No $\frac{4}{5}$ is bigger as it equals 80%

✱ Also $\frac{4}{5}$ larger than a $\frac{1}{2}$ whereas 45% is less than a half.

$\frac{4}{5} \rightarrow \frac{8}{10} \rightarrow \frac{80}{100} = 80\%$

★

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Hassan scores 40 out of 80 in a test.

$\frac{40}{80} = \frac{1}{2} = 50\%$

Kate scores 40% in the same test.

Who has the higher score? Hassan

Explain how you know. He scored 50% which is larger than 40%

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Danyal is saving money. His dad offers him two lots of money.

**60% of £35**   $10\% = £3.50 \times 6 = £21$
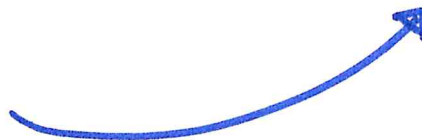
**45% of £48**   $10\% = £4.80 \times 4 = £19.20$
             $5\% = £2.40$         $2.40$
                         $£21.60$

Which should he take? Purple

Explain your reasoning.
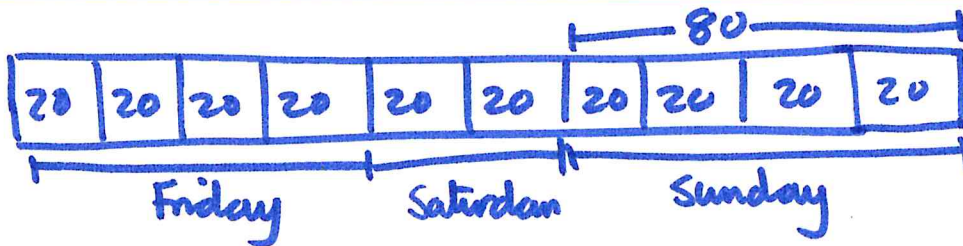
# Working Deeper

On Friday, Ping read $\frac{2}{5}$ of his book.
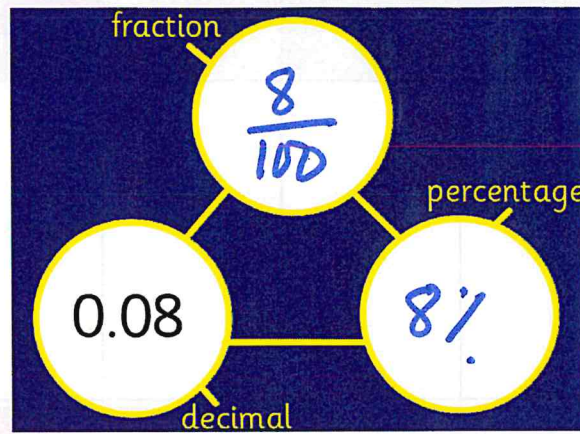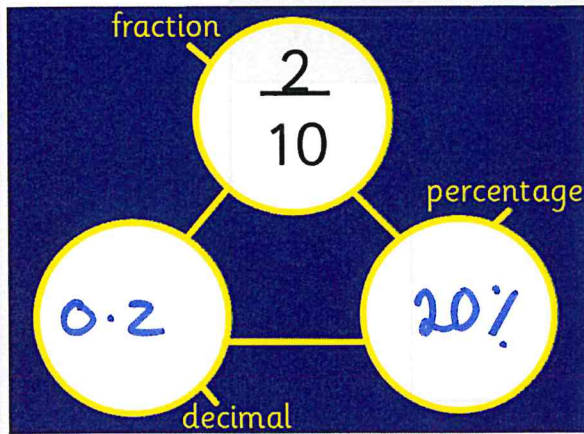
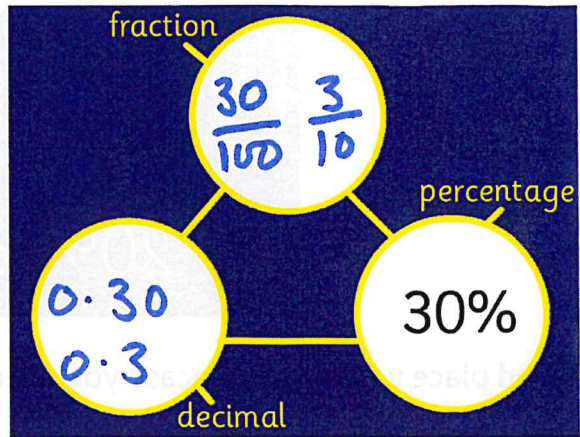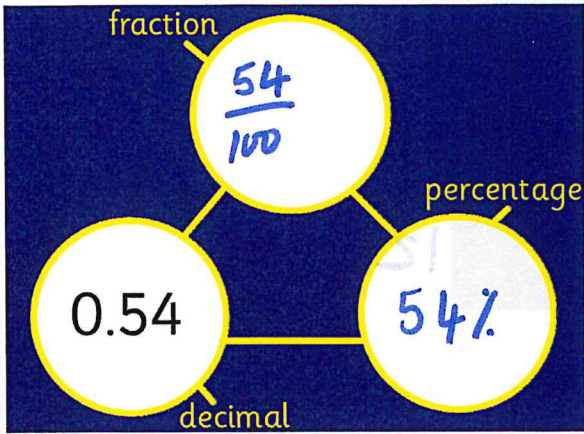$$\frac{2}{5} = \frac{4}{10} = 40\%$$

On Saturday, he read 20%.

On Sunday, he read the **other** 80 pages to finish the book.

How many pages were there in Ping's book? **200 pages**

| 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
|----|----|----|----|----|----|----|----|----|----|

80

Friday    Saturday    Sunday

$80 \div 4 =$

**fraction**
54/100

0.54

**percentage**
54%

**decimal**

**fraction**
30/100  3/10

0.30
0.3

**percentage**
30%

**decimal**

**fraction**
2/10

0.2

**percentage**
20%

**decimal**

**fraction**
8/100

0.08

**percentage**
8%

**decimal**

Order smallest to largest.

0.80

0.60

| 0.63 | $\frac{4}{5}$ $\frac{8}{10}$ | 60% | 0.02 |
|---|---|---|---|

| 0.02 | 60% | 0.63 | $\frac{4}{5}$ |
|---|---|---|---|

0.80       0.09       0.28

| 0.50 | $\frac{80}{100}$ | $\frac{9}{100}$ 9% | 0.28 |
|---|---|---|---|

| 9% | 0.28 | 0.5 | $\frac{8}{10}$ |
|---|---|---|---|

a) 10% of 80   8

b) 40% of 120   48

c) 20% of 60   12

I have included place value charts incase you need them.

| Th | H | T | O | ● | tth | hth |
|----|---|---|---|---|-----|-----|
|    |   |   |   |   |     |     |

| Th | H | T | O | ● | tth | hth |
|----|---|---|---|---|-----|-----|
|    |   |   |   |   |     |     |

| Th | H | T | O | ● | tth | hth |
|----|---|---|---|---|-----|-----|
|    |   |   |   |   |     |     |