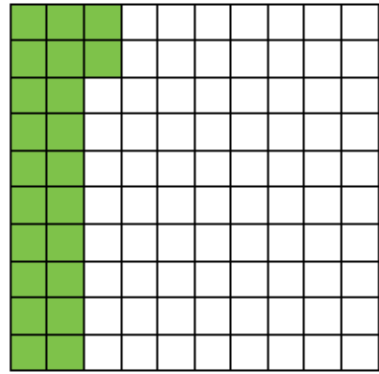




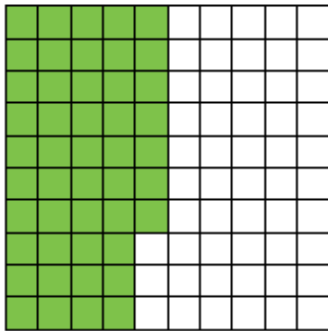
1) True or False?

a) 24% is shaded. \_\_\_\_\_

b) There are 22 parts per 100 shaded. \_\_\_\_\_



2) True or false? Explain your answer fully.

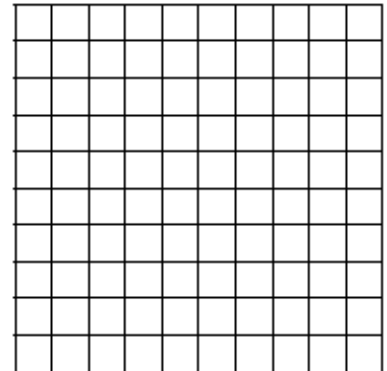


a) The percentage of squares shaded is between 45 parts per 100 and 50%.  
\_\_\_\_\_

b) If I shaded another 12 squares I will have shaded 60% of the 100 square.  
\_\_\_\_\_

3) Isaac colours in 100% of this square in different colours. He is only allowed to use colours in the percentage amounts given below:

25% = red	15 parts per hundred = yellow
75% = orange	10 parts per hundred = pink
40% = green	50 parts per hundred = blue
5% = black	30 parts per hundred = purple



a) Find different ways that Isaac could colour in the whole 100 square using only 2 or 3 different colours. Give three examples.

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b) Find a way of colouring in 100% of the square that uses exactly 4 colours. Can you find more than one answer?

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- 1) a) False  
b) True

- 2) a) True. As there are 47 squares coloured, this means between 45% and 50% of the squares are shaded.

b) False. If I shaded another 12 squares this would mean that 59% of the squares would have been shaded, not 60%.

- 3) a) Various combinations are possible. Ensure all answers add to 100%.

- orange (75%) + red (25%)
- pink (10%) + yellow (15%) + orange (75%)
- green (40%) + pink (10%) + blue (50%)

- b) Answers vary. Example answers shown:

- blue (50%) + yellow (15%) + black (5%) + purple (30%)
- blue (50%) + purple (30%) + black (5%) + yellow (15%)