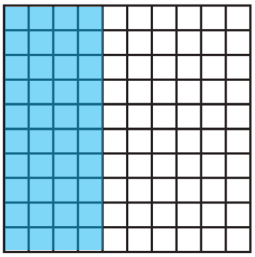
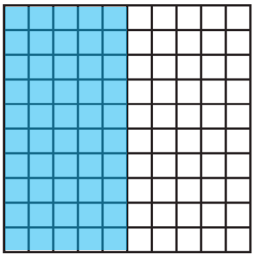
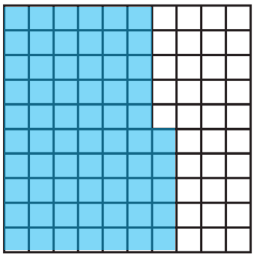
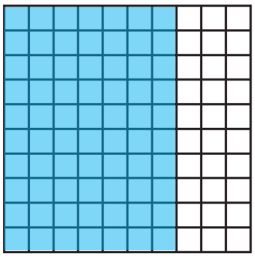
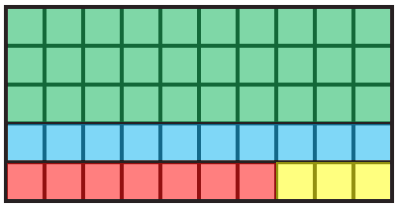
Y6 – Spring – Block 4 – Step 4 – Fractions to percentages Answers

Question	Answer
1	a) $\frac{3}{10}$ b) $\frac{7}{10}$ c) 30% d) 70% e) They add up to 100%.
2	a)  40% b)  50% c)  65% d)  70% The grids all have the same number of squares, and the percentage is the number of shaded squares. The denominators of the fractions are not all the same.

Y6 – Spring – Block 4 – Step 4 – Fractions to percentages Answers (continued)

Question	Answer
3	a) $\frac{9}{10} = \frac{90}{100} = 90\%$ b) $\frac{9}{20} = \frac{45}{100} = 45\%$ c) $\frac{9}{50} = \frac{18}{100} = 18\%$ d) $\frac{9}{25} = \frac{36}{100} = 36\%$
4	a) 25% 50% 75% b) 20% 40% 80% c) 80% 40% 20% d) 90% 90% 90% Children may recognise various patterns: Part a): As the fraction goes up by $\frac{1}{4}$, the percentage goes up by 25%. Part b): When the numerator of the fraction is doubled, the percentage is doubled. Part c): When the numerator of the fraction is halved, the percentage is halved. Part d): All the fractions are equivalent and give the same percentage.
5	No. Tiny has doubled the percentage when he should have divided it by 2 The correct answer is 5%.
6	a)  b) 6%
7	Multiple possible answers: $\frac{1}{2} > 40\%$ $\quad 75\% = \frac{3}{4}$ $\quad \frac{3}{5} < 65\%$ $\frac{1}{4} > 20\%$ $\quad 75\% = \frac{3}{4}$ $\quad \frac{3}{5} < 65\%$ $\frac{2}{1} > 40\%$ $\quad 75\% = \frac{3}{4}$ $\quad \frac{3}{5} < 65\%$ The 3 and 5 must be in the same position but the 1, 2 and 4 can be placed in any order.