National 5 Mathematics

Fractions - **Solutions** - 2014-2019

Marks are indicated in brackets after each question number

2014 Paper 1 Question 1, (2)

$$\frac{5}{12} x\, 2\frac{2}{9} = \frac{5}{12}\, x\, \frac{20}{9}$$

$$= \frac{100}{108}$$

$$= \frac{25}{27}$$

2015 Paper 1 Question 1, (2)

$$6\frac{1}{5} - 2\frac{1}{3} = \frac{31}{5} - \frac{7}{3}$$

$$= \frac{93}{15} - \frac{35}{15}$$

$$= \frac{93 - 35}{15}$$

$$= \frac{58}{15}$$

2015 Paper 2 Question 7, (3)

$$\frac{5t}{s} \div \frac{t}{2s^2}$$

$$= \frac{5t}{s} x \frac{2s^2}{t}$$

$$= \frac{10ts^2}{ts}$$

$= 10s$

2016 Paper 1 Question 2, (3)

$$\frac{3}{4}\left(\frac{1}{3}+\frac{2}{7}\right)=\frac{3}{4}\left(\frac{7}{21}+\frac{6}{21}\right)=\frac{3}{4}\left(\frac{13}{21}\right)=\frac{39}{84}=\frac{13}{28}$$

2017 Paper 1 Question 3, (3)

$$1\frac{5}{6}\div\frac{3}{4}=\frac{11}{6}\div\frac{3}{4}$$

$$=\frac{11}{6}\,x\,\frac{4}{3}$$

$$=\frac{44}{18}$$

$$=\frac{22}{9}$$

2018 Paper 1 Question 1, (2)

$$2\frac{1}{3}+\frac{4}{5}=\frac{7}{3}+\frac{4}{5}$$

$$=\frac{35}{15}+\frac{12}{15}$$

$$=\frac{47}{15}$$

$$=3\frac{2}{15}$$

2019 Paper 1 Question 2, (2)

$$\frac{3}{8} \, x \, 1\frac{5}{7} = \frac{3}{8} \, x \, \frac{12}{7}$$

$$= \frac{36}{56}$$

$$= \frac{9}{14}$$