



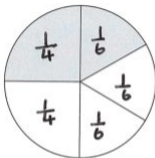
Fraction Problems

Answers

2017 Paper 2 Reasoning

1

In this circle, $\frac{1}{4}$ and $\frac{1}{6}$ are shaded.



What fraction of the whole circle is not shaded?

Show
your
method

$$\frac{1}{4} + \frac{1}{6} + \frac{1}{6} \text{ ①} \quad \frac{1}{6} + \frac{1}{6} = \frac{2}{6} = \frac{1}{3}$$

$$\frac{1}{4} + \frac{1}{3} = \frac{3}{12} + \frac{4}{12} = \frac{7}{12} \quad \boxed{\frac{7}{12}} \text{ ①}$$

2 marks

2

2018 Paper 1 Arithmetic

35

$$4\frac{2}{3} - 1\frac{6}{7} =$$

$$\begin{array}{r} 898 \\ - 39 \\ \hline 59 \end{array}$$

$$\frac{14}{3} - \frac{13}{7} = \frac{98}{21} - \frac{39}{21} = \frac{59}{21} \quad \frac{14}{\frac{14}{2}} = \frac{14 \times 7}{2}$$

$$\frac{14}{3} = \frac{98}{21} \quad \frac{13}{7} = \frac{39}{21}$$

$$\frac{59}{21} \text{ or } 2\frac{17}{21}$$



1 mark

(1)

3

2017 Paper 1 Arithmetic

30

$$2\frac{1}{3} + \frac{5}{6} = \frac{7}{3} + \frac{5}{6} = \frac{14}{6} + \frac{5}{6} = \frac{19}{6}$$

$$2\frac{1}{3} = \frac{7}{3}$$

$$\frac{7}{3} = \frac{14}{6}$$

$$\frac{19}{6}$$



1 mark