1    **Without using your calculator**, work out   $\frac{3}{8} \div 2\frac{1}{4}$.

You must show all your working and give your answer as a fraction in its simplest form.

.................................................. [3]

## MARK SCHEME:

| | | |
|---|---|---|
| $\frac{3}{8} \times \frac{4}{9}$ oe **or** $\frac{3}{8} \div \frac{18}{8}$ oe with common denominator | **M2** | **B1** for $\frac{9}{4}$ oe seen <br><br> or **M1** for $\frac{3}{8} \times their \frac{4}{9}$ |
| $\frac{1}{6}$ cao | **A1** | |

2 **Without using a calculator**, work out $\frac{5}{16} \times 1\frac{1}{7}$.

You must show all your working and give your answer as a fraction in its simplest form.

..................................................... [2]

**MARK SCHEME:**

| | | |
|---|---|---|
| $\frac{5}{16} \times \frac{8}{7}$ | **M1** | |
| $\frac{5}{14}$ cao | **A1** | |

**03**  **Without using a calculator**, work out  $3\frac{5}{8}-1\frac{2}{3}$.

You must show all your working and give your answer as a mixed number in its simplest form.

........................................................  [3]

## MARK SCHEME:

| | | | |
|---|---|---|---|
| $\dfrac{29}{8}$ or $\dfrac{5}{3}$ | $2\dfrac{5}{8}-\dfrac{2}{3}$ | **M1** | Allow $\dfrac{29k}{8k}$ or $\dfrac{5k}{3k}$<br>Correct step for dealing with mixed numbers |
| $\dfrac{87}{24}$ and $\dfrac{40}{24}$ | $[2]\dfrac{15}{24}$ and $\dfrac{16}{24}$ | **M1** | Correct method to find common denominator e.g. $3\dfrac{15}{24}$ and $1\dfrac{16}{24}$ |
| $1\dfrac{23}{24}$  cao | | **A1** | |

04 **Without using your calculator**, work out $1\dfrac{5}{6}+\dfrac{9}{10}$.

**You must show your working** and give your answer as a mixed number in its simplest form.

*Answer* .................................... [3]

**MARK SCHEME:**

| | | |
|---|---|---|
| $\dfrac{55}{30}+\dfrac{27}{30}$ oe **or** $(1)\dfrac{25}{30}+\dfrac{27}{30}$ oe | **M1** | for denominator of $30k$ |
| $\dfrac{82}{30}$ oe **or** $(1)\dfrac{52}{30}$ oe | **M1** | for denominator of $30k$ dependent on previous **M1** |
| $2\dfrac{11}{15}$ **M2** must be scored | **A1** | If **M0** scored then **SC1** for common denominator of $30k$ seen |