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1. Choose the proper fractions from the list of fractions below:

Ans: $\dfrac{2}{3}$, $\dfrac{11}{12}$, $\dfrac{1}{6}$

2. Write the improper fractions for each of the following:

(a) $\dfrac{5}{4}$ (b) $\dfrac{7}{6}$ (c) $\dfrac{27}{10}$ (d) $\dfrac{17}{5}$

3. Write the mixed numbers for each of the following:

(a) $1\dfrac{1}{3}$ (b) $1\dfrac{5}{6}$ (c) $2\dfrac{3}{5}$ (d) $3\dfrac{1}{4}$

4. Change the following improper fractions in to mixed numbers:

(a)	(b)
$\dfrac{7}{3} = 7 \div 3 = 2\,R\,1 = 2\dfrac{1}{3}$	$\dfrac{9}{5} = 9 \div 5 = 1\,R\,4 = 1\dfrac{4}{5}$
(c)	(d)
$\dfrac{6}{5} = 6 \div 5 = 1\,R\,1 = 1\dfrac{1}{5}$	$\dfrac{12}{7} = 12 \div 7 = 1\,R\,5 = 1\dfrac{5}{7}$

5. Change the following mixed numbers in to improper fractions:

(a)	(b)
$3\frac{1}{4} = \frac{W \times D + N}{D}$ $= \frac{3 \times 4 + 1}{4}$ $= \frac{12 + 1}{4}$ $= \frac{13}{4}$	$1\frac{2}{5} = \frac{W \times D + N}{D}$ $= \frac{1 \times 5 + 2}{5}$ $= \frac{5 + 2}{5}$ $= \frac{7}{5}$
(c)	(d)
$2\frac{3}{5} = \frac{W \times D + N}{D}$ $= \frac{2 \times 5 + 3}{5}$ $= \frac{10 + 3}{5}$ $= \frac{13}{5}$	$4\frac{1}{3} = \frac{W \times D + N}{D}$ $= \frac{4 \times 3 + 1}{3}$ $= \frac{12 + 1}{3}$ $= \frac{13}{3}$

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1. Add these fractions. Leave your answer in the simplest form.

(a)	(b)
$\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$	$\frac{1}{5} + \frac{3}{5} = \frac{4}{5}$
(c)	(d)
$\frac{2}{7} + \frac{3}{7} = \frac{5}{7}$	$\frac{2}{9} + \frac{4}{9} = \frac{6}{9}$

2. Subtract these fractions. Leave your answer in the simplest form.

(a)	$\dfrac{4}{5} - \dfrac{1}{5} = \dfrac{3}{5}$	(b)	$1 - \dfrac{1}{4} = \quad \dfrac{4}{4} - \dfrac{1}{4} = \dfrac{3}{4}$
(c)	$\dfrac{6}{7} - \dfrac{1}{7} = \dfrac{5}{7}$	(d)	$1 - \dfrac{2}{8} = \dfrac{8}{8} - \dfrac{2}{8} = \dfrac{6}{8}$

3. Add the following fractions. Leave your answer in the simplest form.

(a)	$\dfrac{2}{3} + \dfrac{1}{6}$ $\dfrac{2}{3} + \dfrac{1}{6} = \dfrac{2 \times 2}{3 \times 2} + \dfrac{1}{6}$ $= \dfrac{4}{6} + \dfrac{1}{6}$ $= \dfrac{5}{6}$	(b)	$\dfrac{3}{5} + \dfrac{3}{10}$ $\dfrac{3}{5} + \dfrac{3}{10} = \dfrac{3 \times 2}{5 \times 2} + \dfrac{3}{10}$ $= \dfrac{6}{10} + \dfrac{3}{10}$ $= \dfrac{9}{10}$
(c)	$\dfrac{1}{4} + \dfrac{3}{8}$ $\dfrac{1}{4} + \dfrac{3}{8} = \dfrac{1 \times 2}{4 \times 2} + \dfrac{3}{8}$ $= \dfrac{2}{8} + \dfrac{3}{8}$ $= \dfrac{5}{8}$	(d)	$\dfrac{1}{2} + \dfrac{1}{6} + \dfrac{2}{6}$ $\dfrac{1}{2} + \dfrac{1}{6} + \dfrac{2}{6} = \dfrac{1 \times 3}{2 \times 3} + \dfrac{1}{6} + \dfrac{2}{6}$ $= \dfrac{3}{6} + \dfrac{1}{6} + \dfrac{2}{6}$ $= \dfrac{6}{6} = 1$

4. Subtract the following fractions. Leave your answer in the simplest form.

(a) $\dfrac{1}{2} - \dfrac{1}{8}$

$$\dfrac{1}{2} - \dfrac{1}{8} = \dfrac{1 \times 4}{2 \times 4} - \dfrac{1}{8}$$

$$= \dfrac{4}{8} - \dfrac{1}{8}$$

$$= \dfrac{3}{8}$$

(b) $\dfrac{4}{5} - \dfrac{3}{10}$

$$\dfrac{4}{5} - \dfrac{3}{10} = \dfrac{4 \times 2}{5 \times 2} - \dfrac{3}{10}$$

$$= \dfrac{8}{10} - \dfrac{3}{10}$$

$$= \dfrac{5}{10}$$

(c) $\dfrac{3}{4} - \dfrac{5}{8}$

$$\dfrac{3}{4} - \dfrac{5}{8} = \dfrac{3 \times 2}{4 \times 2} - \dfrac{5}{8}$$

$$= \dfrac{6}{8} - \dfrac{5}{8}$$

$$= \dfrac{1}{8}$$

(d) $1 - \dfrac{1}{3}$

$$1 - \dfrac{1}{3} = \dfrac{3}{3} - \dfrac{1}{3}$$

$$= \dfrac{2}{3}$$

5. Find the answer for each of the following. Leave your answer in the simplest form.

(a) $\dfrac{1}{4} + \dfrac{5}{8}$ $\dfrac{1}{4} + \dfrac{5}{8} = \dfrac{1 \times 2}{4 \times 2} + \dfrac{5}{8}$ $= \dfrac{2}{8} + \dfrac{5}{8}$ $= \dfrac{7}{8}$	(b) $\dfrac{1}{9} + \dfrac{2}{3}$ $\dfrac{1}{9} + \dfrac{2}{3} = \dfrac{1}{9} + \dfrac{2 \times 3}{3 \times 3}$ $= \dfrac{1}{9} + \dfrac{6}{9}$ $= \dfrac{7}{9}$
(c) $1 - \dfrac{6}{7}$ $1 - \dfrac{6}{7} = \dfrac{7}{7} - \dfrac{6}{7}$ $= \dfrac{1}{7}$	(d) $\dfrac{2}{5} - \dfrac{3}{10}$ $\dfrac{2}{5} - \dfrac{3}{10} = \dfrac{2 \times 2}{5 \times 2} - \dfrac{3}{10}$ $= \dfrac{4}{10} - \dfrac{3}{10}$ $= \dfrac{1}{10}$