Fractions and Mixed Numbers –
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Give all answers as **FULLY SIMPLIFIED** fractions **OR** mixed numbers where appropriate. **Non-Calc for all questions**

(1) $2 + 1\frac{3}{5}$

(2) $\frac{3}{7} \times 3$

(3) $4 - 2\frac{1}{7}$

(4) $3\frac{1}{6} - 1\frac{1}{4}$

(5) $\frac{5}{7} \div \frac{2}{3}$

(6) $3\frac{2}{7} - \frac{9}{4}$

(7) $4\frac{2}{5} \times 1\frac{2}{3}$

(8) $2 \div \frac{4}{7}$

(9) $\frac{13}{7} + 1\frac{3}{5}$

(10) $\frac{4}{9} \div 9$

(11) $4 \div 1\frac{1}{6}$

(12) $3 - \frac{8}{9}$

(13) $2\frac{1}{8} - 1\frac{5}{7}$

(14) $6 \div \frac{2}{3}$

(15) $5 - \frac{9}{7}$

(16) $\frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \frac{1}{6}$

(17)* A square has perimeter $\frac{8}{9}$ cm.
(a) Find the side lengths of the square.
(b) Find the area of the square

(18)* John has a whole cake. He eats $\frac{3}{8}$ of the cake. Fred and Bob share the rest of the cake equally. What fraction of the cake does Fred have?

(19)* $3A = \frac{4}{9}$ Find the value of A

(20)* $\frac{320}{500} \times \frac{4000}{40}$

(21)* $3\frac{7}{8} + A = 4\frac{1}{9}$ Find the value of A

(22)* A rectangle has one side length of $1\frac{3}{7}$ and an area of $3\frac{2}{5}$. Find the perimeter of the rectangle.

(23)** Find the value of $\left(1\frac{3}{4} + 2\frac{2}{5}\right)^2$

(24)** Write $A + \frac{1}{A}$ as a single fraction.

(25)*** An isosceles triangle has a perimeter of 8. One side length is $3\frac{1}{5}$. Find all the other possible side lengths.