

Week 9 Session 1  
Task 1



$\frac{9}{10}$  is shaded.

$$\frac{9}{10} = \frac{90}{100}$$

$$0.32 + 0.9 = \frac{32}{100} + \frac{9}{10} = \frac{32}{100} + \frac{90}{100} = \frac{122}{100}$$

Task 2 (Note: You might have different answers)

1)  $\frac{25}{30} - \frac{9}{30} > 0.5$

4)  $\frac{50}{75} - \frac{1}{75} > 0.5$

2)  $\frac{6}{7} - \frac{2}{7} > 0.5$

5)  $\frac{5}{6} - \frac{1}{5} > 0.5$

3)  $\frac{80}{100} - \frac{15}{100} > 0.5$

$$\textcircled{1} \quad \frac{75}{15} - \frac{30}{15} > 1$$

$$\textcircled{4} \quad \frac{15}{7} - \frac{1}{2} > 1$$

$$\textcircled{2} \quad \frac{9}{6} - \frac{2}{6} > 1$$

$$\textcircled{5} \quad \frac{80}{20} - \frac{50}{25} > 1$$

$$\textcircled{3} \quad \frac{100}{25} - \frac{2}{3} > 1$$

$$\textcircled{1} \quad \frac{2}{9} + \frac{1}{9} < 0.5$$

$$\textcircled{4} \quad \frac{6}{30} + \frac{5}{25} < 0.5$$

$$\textcircled{2} \quad \frac{3}{20} + \frac{6}{20} < 0.5$$

$$\textcircled{5} \quad \frac{1}{8} + \frac{2}{9} < 0.5$$

$$\textcircled{3} \quad \frac{9}{80} + \frac{10}{50} < 0.5$$

Week 9 Session 2:

Task 1 (Note: you might have different answers)

①  $\frac{1}{3} + \frac{1}{6} = \frac{1}{2}$

②  $\frac{4}{8} + \frac{1}{4} = \frac{6}{8} = \frac{3}{4}$

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

④  $\frac{1}{5} + \frac{2}{10} = \frac{4}{10} = \frac{2}{5}$

⑤  $\frac{2}{4} + \frac{2}{10} = \frac{7}{10}$  (between  $\frac{2}{3}$  and  $\frac{3}{4}$ )

⑥  $\frac{1}{2} - \frac{2}{5} = \frac{1}{10}$

⑦  $\frac{1}{2} - \frac{2}{8} = \frac{1}{4}$

⑧  $\frac{3}{4} - \frac{4}{8} = \frac{2}{8} = \frac{1}{4}$

⑨  $\frac{8}{10} - \frac{1}{5} = \frac{3}{5}$

⑩  $\frac{7}{8} - \frac{1}{8} = \frac{3}{4}$

⑪  $\frac{5}{6} - \frac{1}{6} = \frac{2}{3}$

⑫  $\frac{9}{10} - \frac{1}{5} = \frac{7}{10}$

Task 2

①  $\frac{1}{2} + \frac{1}{3} < 1$  True because  $\frac{1}{3} < \frac{1}{2}$  and

we know that  $\frac{1}{2} + \frac{1}{2} = 1$ .

②  $\frac{1}{2} + \frac{1}{4} > \frac{1}{2} + \frac{1}{3}$  False because  $\frac{1}{3} > \frac{1}{4}$  and hence

$\frac{1}{2} + \frac{1}{3} > \frac{1}{4} + \frac{1}{2}$

③  $\frac{7}{10} = 1 - \frac{2}{5}$  False because  $1 - \frac{2}{5} = \frac{6}{5}$

④  $\frac{1}{2} < \frac{2}{3} - \frac{1}{8}$  False because  $\frac{2}{3} - \frac{1}{8} = \frac{1}{2}$   
and  $\frac{1}{6} > \frac{1}{8}$ , hence  $\frac{2}{3} - \frac{1}{8} > \frac{1}{2}$ .

⑤  $\frac{3}{2} > \frac{3}{4} + \frac{5}{8}$  True because  $\frac{2}{4} + \frac{4}{8} = 1$   
and  $\frac{1}{4} + \frac{1}{5} < \frac{1}{2}$

⑥  $\frac{1}{3} + \frac{3}{4} < \frac{2}{3} + \frac{1}{5}$  False because  $\frac{1}{3} + \frac{3}{4} > 1$   
and  $\frac{2}{3} + \frac{1}{5} < 1$

How many ways can you complete the inequalities below?

①  $2 - \frac{1}{2} < \frac{7}{4}$

②  $2 - \frac{3}{4} < \frac{7}{4}$

③  $2 - \frac{2}{3} < \frac{7}{4}$

④  $2 - \frac{5}{6} < \frac{7}{4}$

④  $2 - \frac{6}{7} < \frac{7}{4}$

⑤  $2 - \frac{5}{4} < \frac{7}{4}$

④



Week 9 Session 4

Task 1

$$\textcircled{1} \quad \frac{2}{3} \times 7 + \frac{1}{3} \times 7 = 7 \left( \frac{2}{3} + \frac{1}{3} \right) = 7 \times 1 = 7$$

$$\textcircled{2} \quad \frac{6}{7} \times 14 - \frac{5}{7} \times 14 = 14 \left( \frac{6}{7} - \frac{5}{7} \right) = 14 \times \frac{1}{7} = \frac{14}{7} = 2$$

$$\textcircled{3} \quad 8 \times \frac{13}{12} = 8 \left( \frac{12}{12} + \frac{1}{12} \right) = 8 \times 1 + 8 \times \frac{1}{12}$$
$$= 8 + \frac{8}{12} = 8 + \frac{2}{3} = 8 \frac{2}{3}$$

$$\textcircled{4} \quad \frac{3}{5} \times 19 - 4 \times \frac{3}{5} = \frac{3}{5} (19 - 4) =$$
$$\frac{3}{5} \times 15 = 9$$

Task 2

