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CHAPTER 2

Check Point 1

1. Find the value of each expression in lowest terms.

(a) $2\frac{1}{5} + 1\frac{3}{4}$

$= \frac{11^{\times 4}}{5^{\times 4}} + \frac{7^{\times 5}}{4^{\times 5}}$

$= \frac{44 + 35}{20}$

$= \frac{79}{20}$

$= 3\frac{19}{20}$ ✓

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

$= \frac{3^{\times 5}}{2^{\times 5}} + \frac{13^{\times 2}}{5^{\times 2}}$

$= \frac{15 + 26}{10}$

$= \frac{41}{10}$ ✓

$= 4\frac{1}{10}$

(c) $3\frac{1}{2} - 1\frac{1}{2}$

$= \frac{7^{\times 2}}{2^{\times 2}} - \frac{3^{\times 2}}{2^{\times 2}}$

$= \frac{14 - 6}{4}$

$= \frac{8}{4}$ ✓

$= 2$

(d) $3\frac{1}{2} - 2\frac{2}{3}$

$= \frac{7^{\times 3}}{2^{\times 3}} - \frac{8^{\times 2}}{3^{\times 2}}$

$= \frac{21 - 16}{6}$

$= \frac{5}{6}$ ✓

(e) $3\frac{1}{2} - 2\frac{5}{9}$

$= \frac{7^{\times 9}}{2^{\times 9}} - \frac{23^{\times 2}}{9^{\times 2}}$

$= \frac{63 - 46}{18}$

$= \frac{17}{18}$ ✓

(f) $5\frac{1}{2} - 5\frac{1}{4}$

$= \frac{11^{\times 4}}{2^{\times 4}} - \frac{21^{\times 2}}{4^{\times 2}}$

$= \frac{44 + 42}{8}$ wrong LCM

$= \frac{86}{8}$

$= 10\frac{3}{4}$ ✗ Please try!

(g) $3\frac{1}{2} - 3\frac{1}{2}$

$= \frac{7^{\times 2}}{2^{\times 2}} - \frac{7^{\times 2}}{2^{\times 2}}$

$= \frac{14 - 14}{4}$

$= \frac{0}{4}$ 0.

(h) $2\frac{3}{4} + 1\frac{1}{5}$

$= \frac{11^{\times 5}}{4^{\times 5}} + \frac{6^{\times 4}}{5^{\times 4}}$

$= \frac{55 + 24}{20}$

$= \frac{79}{20}$

$= 3\frac{19}{20}$ ✓

(i) $1\frac{10}{11} - 1\frac{1}{3}$

$= \frac{21^{\times 3}}{11^{\times 3}} - \frac{4^{\times 11}}{3^{\times 11}}$

$= \frac{63 - 44}{33}$

$= \frac{19}{33}$ ✓

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(j) $5\frac{3}{4} - 5\frac{1}{4}$

$= \frac{23^{\times 4}}{4^{\times 4}} - \frac{21^{\times 4}}{4^{\times 4}}$

$= \frac{92 - 84}{16}$

$= \frac{8}{16}$

$= \frac{1}{2}$ ✓

(k) $3\frac{1}{4} - 2\frac{3}{8}$

$= \frac{13^{\times 8}}{4^{\times 8}} - \frac{19^{\times 4}}{8^{\times 4}}$

$= \frac{104 - 76}{36}$

$= \frac{28}{32}$

$= \frac{7}{8}$ ✓

(l) $1\frac{5}{12} + 3\frac{1}{3}$

$= \frac{17^{\times 3}}{12^{\times 3}} + \frac{10^{\times 12}}{3^{\times 12}}$

$= \frac{51 + 120}{36}$

$= \frac{171}{36}$ ✗

3 | 12, 3
4 | 4, 1
1, 1

LCM = 3 × 4 = 12

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2. Find the value of each expression in lowest term.

a) $\frac{1}{2} \times \frac{5}{4}$

$= \frac{1 \times 5}{2 \times 4} = \frac{5}{8}$

b) $\frac{1}{4} \times \frac{5}{3}$

$= \frac{1 \times 5}{4 \times 3} = \frac{5}{12}$

c) $\frac{10}{3} \times \frac{11}{6}$

$= \frac{10 \times 11}{3 \times 6} = \frac{110}{18} = 6\frac{1}{9}$

d) $\frac{14}{9} \times \frac{7}{10}$

$= \frac{14 \times 7}{9 \times 10} = \frac{98}{90} = \frac{49}{45}$

$= 1\frac{4}{45}$

e) $\frac{1}{3} \times \frac{20}{9}$

$= \frac{1 \times 20}{3 \times 9} = \frac{20}{27}$

f) $\frac{15}{8} \times \frac{7}{6}$

$= \frac{15 \times 7}{8 \times 6} = \frac{105}{48} = 2\frac{3}{16}$

g) $\frac{13}{7} \times \frac{14}{11}$

$= \frac{13 \times 14}{7 \times 11} = \frac{182}{77} = 2\frac{4}{11}$

h) $\frac{1}{6} \div \frac{8}{11}$

$= \frac{1}{6} \times \frac{11}{8} = \frac{11}{48}$

i) $\frac{11}{2} \div \frac{1}{2}$

$= \frac{11}{2} \times \frac{2}{1} = \frac{22}{2} = 11$

j) $\frac{1}{2} \div \frac{1}{2}$

$= \frac{1}{2} \times \frac{2}{1} = \frac{2}{2} = 1$

k) $\frac{1}{3} \div \frac{13}{9}$

$= \frac{1}{3} \times \frac{9}{13} = \frac{9}{39} = \frac{3}{13}$

l) $\frac{13}{4} \div \frac{1}{2}$

$= \frac{13}{4} \times \frac{2}{1} = \frac{26}{4} = 6\frac{1}{2}$

m) $\frac{3}{2} \div \frac{4}{9}$

$= \frac{3}{2} \times \frac{9}{4} = \frac{27}{8} = 3\frac{3}{8}$

n) $\frac{17}{9} \div \frac{3}{5}$

$= \frac{17}{9} \times \frac{5}{3} = \frac{85}{27} = 3\frac{4}{27}$