'Show that' fractions: add/subtract

1:   Work out the following, showing your method and simplifying your answer:

  a) Show that $\frac{1}{9} + \frac{8}{27} = \frac{11}{27}$

  b) Show that $\frac{21}{50} + \frac{3}{10} = \frac{18}{25}$

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  c) Show that $\frac{5}{7} + \frac{3}{14} = \frac{13}{14}$

  d) Show that $\frac{1}{12} + \frac{2}{3} = \frac{3}{4}$

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2:   Work out the following, showing your method and simplifying your answer:

  a) Show that $\frac{7}{8} - \frac{1}{40} = \frac{17}{20}$

  b) Show that $\frac{5}{6} - \frac{5}{18} = \frac{5}{9}$

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  c) Show that $\frac{4}{5} - \frac{7}{10} = \frac{1}{10}$

  d) Show that $\frac{1}{2} - \frac{3}{8} = \frac{1}{8}$

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3: Work out the following, showing your method and simplifying your answer:

a) Show that $\frac{3}{4} + \frac{1}{6} = \frac{11}{12}$

b) Show that $\frac{2}{9} + \frac{1}{4} = \frac{17}{36}$

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c) Show that $\frac{2}{7} + \frac{1}{2} = \frac{11}{14}$

d) Show that $\frac{1}{3} + \frac{3}{10} = \frac{19}{30}$

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4: Work out the following, showing your method and simplifying your answer:

a) Show that $\frac{4}{5} - \frac{2}{3} = \frac{2}{15}$

b) Show that $\frac{1}{5} - \frac{1}{8} = \frac{3}{40}$

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c) Show that $\frac{3}{4} - \frac{3}{10} = \frac{9}{20}$

d) Show that $\frac{3}{10} - \frac{1}{7} = \frac{11}{70}$

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5: Work out the following, showing your method and simplifying your answer:

a) Show that $1\frac{1}{4} + 2\frac{3}{20} = 3\frac{2}{5}$

b) Show that $4\frac{19}{28} + 1\frac{6}{7} = 6\frac{15}{28}$

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c) Show that $3\frac{7}{8} + 1\frac{1}{24} = 4\frac{11}{12}$

d) Show that $3\frac{29}{30} + 2\frac{1}{6} = 6\frac{2}{15}$

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6: Work out the following, showing your method and simplifying your answer:

a) Show that $4\frac{1}{5} - 1\frac{11}{15} = 2\frac{7}{15}$

b) Show that $4\frac{1}{12} - 1\frac{1}{3} = 2\frac{3}{4}$

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c) Show that $3\frac{3}{10} - 2\frac{17}{30} = \frac{11}{15}$

d) Show that $3\frac{3}{10} - 1\frac{1}{2} = 1\frac{4}{5}$

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7:   Work out the following, showing your method and simplifying your answer:

a) Show that $4\frac{2}{3} + 2\frac{7}{8} = 7\frac{13}{24}$

b) Show that $1\frac{1}{7} + 3\frac{5}{6} = 4\frac{41}{42}$

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c) Show that $4\frac{3}{10} + 2\frac{7}{9} = 7\frac{7}{90}$

d) Show that $3\frac{2}{3} + 1\frac{3}{7} = 5\frac{2}{21}$

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8:   Work out the following, showing your method and simplifying your answer:

a) Show that $4\frac{1}{10} - 1\frac{7}{8} = 2\frac{9}{40}$

b) Show that $3\frac{2}{5} - 2\frac{6}{7} = \frac{19}{35}$

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c) Show that $4\frac{3}{8} - 2\frac{3}{7} = 1\frac{53}{56}$

d) Show that $3\frac{5}{6} - 1\frac{3}{10} = 2\frac{8}{15}$

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Answers: 'Show that' fractions: add/subtract

1:   a) $\frac{3}{27} + \frac{8}{27} = \frac{11}{27}$ b) $\frac{21}{50} + \frac{15}{50} = \frac{36}{50} = \frac{18}{25}$ c) $\frac{10}{14} + \frac{3}{14} = \frac{13}{14}$ d) $\frac{1}{12} + \frac{8}{12} = \frac{9}{12} = \frac{3}{4}$

2:   a) $\frac{35}{40} - \frac{1}{40} = \frac{34}{40} = \frac{17}{20}$ b) $\frac{15}{18} - \frac{5}{18} = \frac{10}{18} = \frac{5}{9}$ c) $\frac{8}{10} - \frac{7}{10} = \frac{1}{10}$ d) $\frac{4}{8} - \frac{3}{8} = \frac{1}{8}$

3:   a) $\frac{9}{12} + \frac{2}{12} = \frac{11}{12}$ b) $\frac{8}{36} + \frac{9}{36} = \frac{17}{36}$ c) $\frac{4}{14} + \frac{7}{14} = \frac{11}{14}$ d) $\frac{10}{30} + \frac{9}{30} = \frac{19}{30}$

4:   a) $\frac{12}{15} - \frac{10}{15} = \frac{2}{15}$ b) $\frac{8}{40} - \frac{5}{40} = \frac{3}{40}$ c) $\frac{15}{20} - \frac{6}{20} = \frac{9}{20}$ d) $\frac{21}{70} - \frac{10}{70} = \frac{11}{70}$

5:   a) $1\frac{5}{20} + 2\frac{3}{20} = 3\frac{8}{20} = 3\frac{2}{5}$ b) $4\frac{19}{28} + 1\frac{24}{28} = 6\frac{15}{28}$

     c) $3\frac{21}{24} + 1\frac{1}{24} = 4\frac{22}{24} = 4\frac{11}{12}$ d) $3\frac{29}{30} + 2\frac{5}{30} = 6\frac{4}{30} = 6\frac{2}{15}$

6:   a) $4\frac{3}{15} - 1\frac{11}{15} = 2\frac{7}{15}$ b) $4\frac{1}{12} - 1\frac{4}{12} = 2\frac{9}{12} = 2\frac{3}{4}$

     c) $3\frac{9}{30} - 2\frac{17}{30} = \frac{22}{30} = \frac{11}{15}$ d) $3\frac{3}{10} - 1\frac{5}{10} = 1\frac{8}{10} = 1\frac{4}{5}$

7:   a) $4\frac{16}{24} + 2\frac{21}{24} = 7\frac{13}{24}$ b) $1\frac{6}{42} + 3\frac{35}{42} = 4\frac{41}{42}$ c) $4\frac{27}{90} + 2\frac{70}{90} = 7\frac{7}{90}$ d) $3\frac{14}{21} + 1\frac{9}{21} = 5\frac{2}{21}$

8:   a) $4\frac{4}{40} - 1\frac{35}{40} = 2\frac{9}{40}$ b) $3\frac{14}{35} - 2\frac{30}{35} = \frac{19}{35}$

     c) $4\frac{21}{56} - 2\frac{24}{56} = 1\frac{53}{56}$ d) $3\frac{25}{30} - 1\frac{9}{30} = 2\frac{16}{30} = 2\frac{8}{15}$