Answers for Tuesday 30th April

Fractions against the clock

Write as many of these improper fractions as mixed numbers as you can in five minutes, e.g. write $\frac{11}{5}$ as $2\frac{1}{5}$.

1	$\frac{12}{5}$	$2\frac{2}{5}$	5	$\frac{7}{4}$	$1\frac{3}{4}$	9	$\frac{9}{4}$	$2\frac{1}{4}$
2	$\frac{13}{6}$	$2\frac{1}{6}$	6	$\frac{17}{10}$	$1\frac{7}{10}$	10	$\frac{23}{7}$	$3\frac{2}{7}$
3	$\frac{13}{8}$	$1\frac{5}{8}$	7	$\frac{11}{7}$	$1\frac{4}{7}$	11	$\frac{19}{8}$	$2\frac{3}{8}$
4	$\frac{14}{3}$	$4\frac{2}{3}$	8	$\frac{20}{9}$	$2\frac{2}{9}$	12	$\frac{20}{3}$	$6\frac{2}{3}$

To write $\frac{19}{8}$ as a mixed number, think how many $\frac{1}{8}$s are in one whole, in two wholes...

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Expected

5a. A = $2\frac{2}{5} = \frac{12}{5}$; B = $2\frac{2}{3} = \frac{8}{3}$;

C = $3\frac{1}{9} = \frac{28}{9}$

6a. False; $4\frac{1}{11} = \frac{45}{11}$

7a. $5\frac{8}{12}$ and $\frac{68}{12}$

8a. A

Expected

5b. A = $3\frac{3}{4} = \frac{15}{4}$; B = $2\frac{3}{7} = \frac{17}{7}$;

C = $2\frac{8}{11} = \frac{30}{11}$

6b. True

7b. $5\frac{9}{10}$ and $\frac{59}{10}$

8b. C

Greater Depth

7a. $6\frac{9}{12} = \frac{27}{4}$

8a. Various possible answers, for example: $3\frac{8}{10}$ because the others both have a denominator of 2 as simplified improper fractions.

9a. Mai is incorrect; $7\frac{8}{12} = \frac{23}{3}$. Accept answers which use diagrams to prove this.

Greater Depth

7b. $7\frac{2}{8} = \frac{29}{4}$

8b. Various possible answers, for example: $4\frac{9}{12}$ because the others both have a denominator of 3 as simplified improper fractions.

9b. Kyle is correct. Accept answers which use diagrams to prove this.