Name

1. Add.

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

= $3 + (\frac{1}{2} \times \frac{5}{5}) + (\frac{1}{5} \times \frac{2}{2})$
= $3 + \frac{5}{10} + \frac{2}{10}$
= $3\frac{7}{10}$

c)
$$1\frac{1}{5} + 3\frac{1}{3} = 4 + \frac{1}{5} + \frac{1}{3}$$

= $4 + (\frac{1}{5} \times \frac{3}{3}) + (\frac{1}{5} + \frac{5}{5})$
= $4 + \frac{3}{15} + \frac{5}{15}$
= $4 + \frac{3}{15} + \frac{5}{15}$

e)
$$2\frac{1}{3} + 4\frac{4}{7} = 6 + \frac{1}{3} + \frac{4}{7}$$

= $6 + (\frac{1}{3} \times \frac{7}{7}) + (\frac{4}{7} \times \frac{3}{3})$
= $6 + \frac{7}{21} + \frac{12}{21}$
= $6 + \frac{19}{21}$

g)
$$15\frac{1}{5} + 4\frac{3}{8} = |9 + \frac{1}{5} + \frac{3}{8}$$

 $= |9 + (\frac{1}{5} \times \frac{8}{8}) + (\frac{3}{8} \times \frac{5}{5})$
 $= |9 + \frac{8}{40} + \frac{15}{40}$
 $= |9 + \frac{23}{40}$
 $= |9 + \frac{23}{40}$

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

 $= 3 + (\frac{1}{2} \times \frac{5}{5}) + (\frac{3}{5} \times \frac{3}{2})$
 $= 3 + \frac{5}{10} + \frac{6}{10}$
 $= 3 + \frac{11}{10} = 3 + |\frac{1}{10} = 4|_{10}$

d)
$$3\frac{2}{3} + 1\frac{3}{5} = 4 + \frac{2}{3} + \frac{3}{5}$$

 $= 4 + (\frac{2}{3} \times \frac{5}{5}) + (\frac{3}{5} \times \frac{3}{3})$
 $= 4 + \frac{10}{15} + \frac{9}{15}$
 $= 4 + \frac{19}{15} = 5\frac{4}{15}$

f)
$$3\frac{5}{7} + 4\frac{2}{3} = 7 + \frac{5}{7} + \frac{2}{3}$$

= $7 + (\frac{5}{7} \times \frac{3}{5}) + (\frac{2}{3} \times \frac{7}{7})$
= $7 + \frac{15}{21} + \frac{19}{21}$
= $7 + \frac{29}{21} = 8\frac{8}{31}$

h)
$$18\frac{3}{8} + 2\frac{2}{5} = 20 + \frac{3}{8} + \frac{2}{5}$$

 $= 20 + (\frac{3}{8} \times \frac{5}{5}) + (\frac{2}{5} \times \frac{8}{8})$
 $= 20 + \frac{15}{40} + \frac{16}{40}$
 $= 20 + \frac{31}{40}$
 $= 20\frac{31}{40}$



Lesson 10: Date:

Add fractions with sums greater than 2.

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2. Angela practiced piano for $2\frac{1}{2}$ hours on Friday, $2\frac{1}{3}$ hours on Saturday, and $3\frac{2}{3}$ hours on Sunday. How much time did Angela practice piano during the weekend?

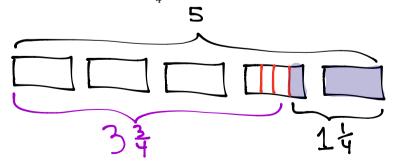
Angela practiced 8 2 hours during the weekend.

3. String A is $3\frac{5}{6}$ meters long. String B is $2\frac{1}{4}$ long. What's the total length of both strings?

$$3\frac{5}{6} + 2\frac{1}{4} = 5 + \frac{5}{6} + \frac{1}{4}$$

 $= 5 + (\frac{5}{6} \times \frac{2}{2}) + (\frac{1}{4} \times \frac{3}{3})$
 $= 5 + \frac{10}{12} + \frac{3}{12}$
 $= 5 + \frac{13}{12}$ The total length of both strings is
 $= (0\frac{1}{12})$ both strings is

4. Matt says that $5 - 1\frac{1}{4}$ will be more than 4, since 5 - 1 is 4. Draw a picture to prove that Matt is wrong.



Matt is wrong because the picture shows the answer should be $3\frac{3}{4}$.



Lesson 10: Date: Add fractions with sums greater than 2. 8/7/13

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