

QUICK COVER

Fractions 3

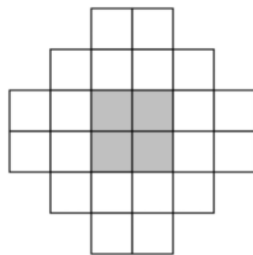
Task 1 : Subtract fractions with the same denominator

Task 2 : Subtract fractions where the denominator of the second is a multiple of the denominator of the first

Task 3 : Subtract fractions with mixed denominators

Task 4 : Subtract mixed numbers

Puzzle : Task 3 & Task 4



Help and hints.....

Fractions 3

You cannot subtract fractions unless they have the SAME DENOMINATOR

TASK 1

$$\frac{3}{8} - \frac{1}{8} = \frac{2}{8} \quad \left(\frac{1}{4}\right)$$

$3 - 1 = 2$

Simplify your answer

if you can $\frac{2}{8} = \frac{1}{4}$

TASK 2

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

SAME DENOMINATOR NEEDED

What do we multiply 5 by to make 10? (2)

Multiply the numerator by 2 as well

so we have $\frac{3}{5} = \frac{6}{10}$

TASK 3

$$\frac{2}{3} - \frac{1}{7} = \frac{14}{21} - \frac{3}{21} = \frac{11}{21}$$

SAME DENOMINATOR NEEDED

What is the smallest common multiple of the two denominators? (21)

$\frac{1}{7} = \frac{3}{21}$ and $\frac{2}{3} = \frac{14}{21}$

TASK 4

$2\frac{1}{4} - 1\frac{2}{3}$ can be written as

$\frac{1}{4}$ is less than $\frac{2}{3}$ but $1 + \frac{1}{4} = \frac{5}{4}$

Change the denominators and subtract the fractions (TASK 3)

Look at the 'whole numbers' $2 - 1 = 1$






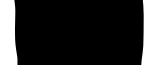
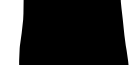


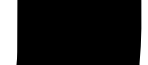
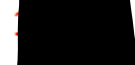


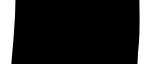
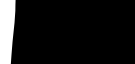



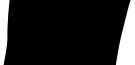


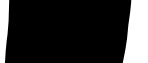
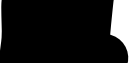
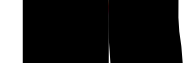

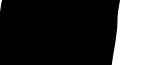
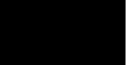
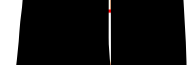

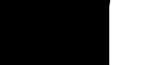
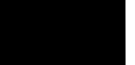

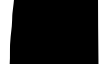
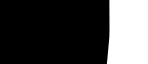
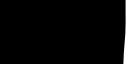

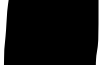

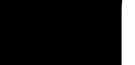





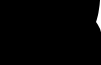

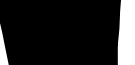

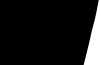

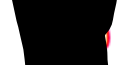








$$\begin{aligned} 1 + \frac{1}{4} - \frac{2}{3} \\ = \frac{5}{4} - \frac{2}{3} \\ = \frac{15}{12} - \frac{8}{12} \\ = \frac{7}{12} \end{aligned}$$

Fractions 3

TASK 1	TASK 2	TASK 3	TASK 4
1. $\frac{2}{4} - \frac{1}{4} =$	1. $\frac{4}{5} - \frac{3}{25} =$	1. $\frac{1}{2} - \frac{1}{9} =$	1. $2\frac{1}{2} - 1\frac{1}{3} =$
2. $\frac{3}{8} - \frac{2}{8} =$	2. $\frac{1}{5} - \frac{1}{10} =$	2. $\frac{1}{4} - \frac{1}{5} =$	2. $3\frac{3}{4} - 2\frac{1}{5} =$
3. $\frac{4}{7} - \frac{2}{7} =$	3. $\frac{1}{9} - \frac{1}{36} =$	3. $\frac{3}{5} - \frac{3}{11} =$	3. $2\frac{1}{5} - 1\frac{4}{7} =$
4. $\frac{5}{8} - \frac{2}{8} =$	4. $\frac{1}{6} - \frac{1}{30} =$	4. $\frac{1}{4} - \frac{1}{5} =$	4. $2\frac{2}{9} - \frac{1}{5} =$
5. $\frac{2}{3} - \frac{1}{3} =$	5. $\frac{1}{5} - \frac{1}{25} =$	5. $\frac{7}{10} - \frac{2}{3} =$	5. $2\frac{1}{8} - 1\frac{2}{3} =$
6. $\frac{4}{8} - \frac{3}{8} =$	6. $\frac{5}{7} - \frac{23}{35} =$	6. $\frac{3}{4} - \frac{1}{5} =$	6. $3\frac{1}{2} - 3\frac{2}{3} =$
7. $\frac{6}{10} - \frac{2}{10} =$	7. $\frac{2}{3} - \frac{2}{15} =$	7. $\frac{7}{8} - \frac{1}{6} =$	7. $3\frac{3}{4} - 1\frac{1}{2} =$
8. $\frac{4}{5} - \frac{3}{5} =$	8. $\frac{7}{10} - \frac{3}{40} =$	8. $\frac{3}{4} - \frac{2}{9} =$	8. $3\frac{1}{4} - 2\frac{1}{2} =$
9. $\frac{3}{4} - \frac{2}{4} =$	9. $\frac{1}{3} - \frac{1}{9} =$	9. $\frac{1}{3} - \frac{1}{11} =$	9. $2\frac{3}{4} - \frac{1}{3} =$
10. $\frac{4}{9} - \frac{3}{9} =$	10. $\frac{2}{3} - \frac{1}{6} =$	10. $\frac{2}{3} - \frac{1}{4} =$	10. $1\frac{3}{7} - \frac{2}{5} =$
11. $\frac{5}{7} - \frac{1}{7} =$	11. $\frac{9}{10} - \frac{11}{40} =$	11. $\frac{1}{3} - \frac{1}{4} =$	11. $3\frac{4}{7} - 2\frac{1}{6} =$
12. $\frac{6}{11} - \frac{3}{11} =$	12. $\frac{1}{8} - \frac{4}{40} =$	12. $\frac{3}{11} - \frac{1}{8} =$	12. $1\frac{4}{5} - 1\frac{2}{3} =$
13. $\frac{2}{9} - \frac{1}{9} =$	13. $\frac{5}{6} - \frac{16}{30} =$	13. $\frac{2}{7} - \frac{3}{11} =$	13. $2\frac{1}{5} - 1\frac{1}{3} =$
14. $\frac{4}{10} - \frac{3}{10} =$	14. $\frac{2}{3} - \frac{7}{12} =$	14. $\frac{1}{2} - \frac{1}{5} =$	14. $1\frac{3}{7} - 1\frac{2}{5} =$
15. $\frac{3}{5} - \frac{1}{5} =$	15. $\frac{7}{10} - \frac{7}{40} =$	15. $\frac{4}{5} - \frac{1}{4} =$	15. $3\frac{3}{5} - 1\frac{2}{3} =$

Fractions 3

ANSWERS

TASK 1	TASK 2	TASK 3	TASK 4
1. 	1. 	1. 	1. 
2. 	2. 	2. 	2. 
3. 	3. 	3. 	3. 
4. 	4. 	4. 	4. 
5. 	5. 	5. 	5. 
6. 	6. 	6. 	6. 
7. 	7. 	7. 	7. 
8. 	8. 	8. 	8. 
9. 	9. 	9. 	9. 
10. 	10. 	10. 	10. 
11. 	11. 	11. 	11. 
12. 	12. 	12. 	12. 
13. 	13. 	13. 	13. 
14. 	14. 	14. 	14. 
15. 	15. 	15. 	15. 