

Speed Work: Level Three

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Mastery Goals

Topic	# Correct to Pass	Time to Pass (Minutes)
Cross Multiply:	18	
Distributive Property	15	
One Variable Problems	15	
Multiplying Fractions	11	
Fraction Arithmetic	7	
Negative Numbers	11	
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Cross Multiply:

Level Three: 20 problems

$\frac{2}{3} = \frac{x}{6}$	$\frac{3}{4} = \frac{x}{16}$	$\frac{2}{9} = \frac{x}{18}$	$\frac{4}{5} = \frac{x}{20}$	$\frac{3}{2} = \frac{x}{8}$
$\frac{1}{6} = \frac{x}{12}$	$\frac{1}{10} = \frac{x}{50}$	$\frac{7}{3} = \frac{x}{9}$	$\frac{7}{2} = \frac{x}{4}$	$\frac{9}{4} = \frac{x}{12}$
$\frac{2}{5} = \frac{x}{30}$	$\frac{2}{11} = \frac{x}{22}$	$\frac{4}{9} = \frac{x}{18}$	$\frac{3}{4} = \frac{x}{8}$	$\frac{3}{5} = \frac{x}{10}$
$\frac{1}{9} = \frac{3x}{27}$	$\frac{1}{5} = \frac{4x}{10}$	$\frac{2}{3} = \frac{8x}{12}$	$\frac{4}{7} = \frac{x}{14}$	$\frac{6}{7} = \frac{x}{21}$

Distributive Property:

Level Three: 16 problems

$2(x + 2) =$	$9(3x + 3) =$	$5(x + 4) =$	$6(2x + 4) =$
$3(3x - 6) =$	$6(6 - 2x) =$	$2(x - 1) =$	$2(-x - 2) =$
$-7(x - 3) =$	$-3(2x + 1) =$	$-2(x + 1) =$	$-8(5 - 2x) =$
$-3(7x + 2) =$	$-4(x - 2) =$	$-2(2x - 1) =$	$-5(-5x + 1) =$

One Variable Problems:

Level Three: 16 problems

$x + 7 = 12$	$5x - 5 = 10$	$x - 9 = 2$	$15 - x = 3$
$3x - 2 = 10$	$4x + 9 = 11$	$4x - 6 = 10$	$8x + 2 = 10$
$14 - x = 5$	$20 - x = 10$	$2x - 4 = 8$	$24 - 2x = -6$
$2 + 2x = 10$	$4 - 6x = 10$	$2 - 8x = 26$	$2 - 8x = 6$

Multiplying Fractions:

Level Three: 12 problems

Multiply & Reduce.

$\frac{1}{4} \times \frac{2}{3}$	$\frac{2}{5} \times \frac{2}{7}$	$\frac{3}{8} \times \frac{3}{5}$	$\frac{5}{12} \times \frac{3}{4}$
$\frac{5}{9} \times \frac{2}{11}$	$\frac{8}{9} \times \frac{3}{10}$	$\frac{6}{7} \times \frac{7}{6}$	$\frac{6}{5} \times \frac{3}{7}$
$\frac{3}{7} \times \frac{9}{4}$	$\frac{4}{7} \times \frac{6}{9}$	$\frac{4}{5} \times \frac{8}{9}$	$\frac{2}{5} \times \frac{7}{8}$

Fraction Arithmetic:

Level Three: 8 problems

Multiply & Reduce.

$\frac{3}{4} - \frac{2}{3}$	$\frac{1}{4} + \frac{2}{3}$	$\frac{1}{9} + \frac{1}{3}$	$\frac{4}{7} + \frac{3}{4}$
$\frac{5}{6} + \frac{1}{2}$	$\frac{5}{8} + \frac{1}{3}$	$\frac{5}{6} - \frac{1}{4}$	$\frac{8}{9} - \frac{1}{5}$

Negative Numbers:

Level Three: 12 problems

$-4 + 5 =$	$-4 - 5 =$	$10 - -5 =$	$-10 + -5 =$
$2 + -5 =$	$-5 + -5 =$	$-5 - -5 =$	$-6 + 6 =$
$-9 + 6 =$	$-9 - 6 =$	$-2 - 4 =$	$-2 - -4 =$

Translating Words.:

Level Three: 8 problems

The product of x and two more than y .	The sum of twice x and 35.	The quotient of 5 less than x and 7.	Four times the difference between x and y
16 less twice the difference between x and y .	45 more than y squared.	The product of $\frac{1}{2}y$ and 12 less than x .	The quotient of one – fourth of x and y cubed.

Answer Key

Level Three

Cross Multiply					Distributive Property			
4	12	4	16	12	$2x + 4$	$27x + 27$	$5x + 20$	$12x + 24$
2	5	21	14	27		$36 - 12x$	$2x - 2$	$-2x - 4$
12	4	8	6	6		$-6x - 3$	$-2x - 2$	$-40 + 16x$
1	0.5	1	8	18		$-21x - 6$	$-4x + 8$	$25x - 5$
One Var. Problems				Multiply Fractions	Fraction Arithmetic			
5	3	11	12		$\frac{1}{6}$	$\frac{4}{35}$	$\frac{9}{40}$	$\frac{5}{16}$
4	$\frac{1}{2}$	4	1		$\frac{10}{99}$	$\frac{4}{15}$	1	$\frac{18}{35}$
9	10	6	15		$\frac{27}{28}$	$\frac{8}{21}$	$\frac{32}{45}$	$\frac{7}{20}$
4	-1	-3	$-\frac{1}{2}$					
Negative Numbers				Translating Word Problems				
1	-9	15	-15		$x \cdot (2 + y)$	$2x + 35$	$\frac{x - 5}{7}$	$4(x - y)$
-3	-10	0	0		$2(x - y) - 16$	$y^2 + 45$	$\frac{1}{2}y(x - 12)$	$\frac{1}{4}\frac{x}{y^3}$
-3	-15	-6	2					