Speed Work: Level Four

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Mastery Goals

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Multiplying Fractions: Level Four: 20 problems

Multiply & Reduce.

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

Negative Numbers: Level Four: 16 problems

$-4 \times 5 =$	$-4 - 5 =$	$10 \div -5 =$	$-10 + -5 =$
$2 + -5 =$	$-15 \div -5 =$	$-5 - -5 =$	$-14 + 6 =$
$-9 \times 6 =$	$-9 - 6 =$	$-2 \div 4 =$	$-2 \times -4 =$
$-16 + 6 =$	$-12 + 8 =$	$-2 \times -8 =$	$5 \times -8 =$

Dividing Fractions: Level Four: 12 problems

Divide & Reduce.

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

Translating Words: Level Four: 12 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 betwee x and y
16 less twice the difference betwee 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.
Five times y increased by 19	The quotient of y and 25 decreased by 31	The square of y less six times y.	The sum of x squared and the product of x and 100.

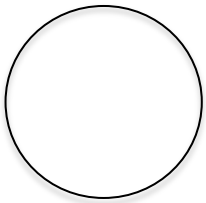
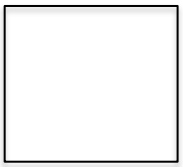
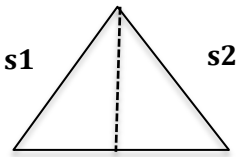
Squares: Level Four: 12 problems

$1^2 =$	$2^2 =$	$3^2 =$	$4^2 =$
$5^2 =$	$6^2 =$	$7^2 =$	$8^2 =$
$9^2 =$	$10^2 =$	$11^2 =$	$12^2 =$

Squares Roots: Level Four: 12 problems

$\sqrt{36}$	$\sqrt{25}$	$\sqrt{81}$	$\sqrt{9}$
$\sqrt{16}$	$\sqrt{121}$	$\sqrt{100}$	$\sqrt{64}$
$\sqrt{144}$	$\sqrt{49}$	$\sqrt{1}$	$\sqrt{4}$

Areas & Perimeters Level 4: 8 Problems

 **Circle** radius r = 3	 **Rectangle** length = 4 width = 5	 **Square** side = 6	 **Triangle** s1 = 5 s2 = 5 base = 6 height = 4
Circle Area:	**Rectangle Area:**	**Square Area:**	**Triangle Area:**
Circle Circumference:	**Rectangle Perimeter:**	**Square Perimeter:**	**Triangle Perimeter:**

Answer Key

Level Four

Multiply Fractions			
$\frac{1}{6}$	$\frac{4}{35}$	$\frac{9}{40}$	$\frac{5}{16}$
$\frac{10}{99}$	$\frac{4}{15}$	1	$\frac{18}{35}$
$\frac{27}{28}$	$\frac{8}{21}$	$\frac{32}{45}$	$\frac{7}{20}$
$\frac{-6}{25}$	$\frac{12}{77}$	$\frac{-35}{72}$	$\frac{12}{77}$
$\frac{14}{81}$	$\frac{-7}{24}$	$\frac{3}{14}$	$\frac{-11}{48}$

Negative Numbers			
-20	-9	-2	-15
-3	3	0	-8
-54	-15	$-\frac{1}{2}$	8
-10	-4	16	-40

Dividing Fractions			
$\frac{3}{8}$	$\frac{7}{5}$	$\frac{15}{32}$	$\frac{5}{9}$
$\frac{55}{18}$	$\frac{80}{27}$	$\frac{36}{49}$	$\frac{14}{5}$
$\frac{4}{21}$	$\frac{6}{7}$	$\frac{9}{10}$	$\frac{16}{35}$

Translating Word Problems			
$x \cdot (2 + y)$	$2x + 35$	$\frac{x - 5}{7}$	$4\,(x - y)$
$2\,(x - y) - 16$	$y^2 + 45$	$\frac{1}{2}y\,(x - 12)$	$\frac{\frac{1}{4}x}{y^3}$
$5y + 19$	$\frac{y}{25} - 31$	$y^2 - 6y$	$x^2 + 100x$

Squares			
1	4	9	16
25	36	49	64
81	100	121	144

Square Roots			
6	5	9	3
4	11	10	8
12	7	1	2

Areas & Perimeters			
$9\,\pi$	20	36	12
$6\,\pi$	18	24	16