

2



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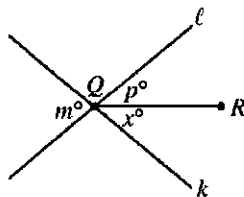


2



3. If this page was folded along the dotted line in the figure above, the left half of the letter W would exactly coincide with the right half of W. Which of the following letters, as shown, CANNOT be folded along a vertical line so that its left half would coincide with its right half?

- (A)
- (B)
- (C)
- (D)
- (E)



Note: Figure not drawn to scale.

4. In the figure above, lines l and k intersect at point Q . If $m = 40$ and $p = 25$, what is the value of x ?
- (A) 15
 - (B) 20
 - (C) 25
 - (D) 40
 - (E) 65

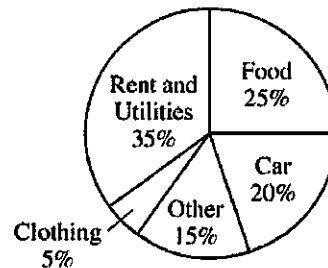
x	y
-2	-3
0	3
1	6
2	9
4	15

5. Which of the following equations is satisfied by the five pairs of numbers listed in the table above?

- (A) $y = x^3 + 3$
- (B) $y = 3x + 3$
- (C) $y = -3x + 6$
- (D) $y = x^2 + 6$
- (E) $y = x^2 - 7$

Plug in

DAVID'S MONTHLY EXPENSES



6. The circle graph above shows how David's monthly expenses are divided. If David spends \$450 per month for food, how much does he spend per month on his car?

- (A) \$200
- (B) \$320
- (C) \$360
- (D) \$400
- (E) \$450

GO ON TO THE NEXT PAGE

CROSS-MULTIPLY
AND DIVIDE

CRYPTIC QUIZ

1. What should the JOLLY GREEN GIANT receive?

$\overline{6}$ $\overline{5}$ $\overline{18}$ $\overline{11}$ $\overline{16}$ $\overline{15}$ $\overline{52}$ $\overline{18}$ $\overline{70}$ $\overline{2}$ $\overline{80}$ $\overline{18}$ $\overline{9}$ $\overline{12}$ $\overline{13}$ $\overline{80}$ $\overline{20}$ $\overline{30}$ $\overline{1}$ $\overline{18}$

2. Why did it take the GOAT more than 3 hours to finish a 20-page book?

$\overline{5}$ $\overline{18}$ $\overline{21}$ $\overline{8}$ $\overline{9}$ $\overline{12}$ $\overline{16}$ $\overline{6}$ $\overline{24}$ $\overline{4}$ $\overline{18}$ $\overline{20}$ $\overline{3}$ $\overline{60}$ $\overline{5}$ $\overline{10}$ $\overline{16}$ $\overline{7}$ $\overline{20}$ $\overline{3}$

Solve each proportion and find your answer in the code. Each time the answer appears, write the letter of the exercise above it.

Ⓘ $\frac{2}{5} = \frac{12}{n}$

$\frac{(5)(12)}{2} = 5(6) = 30$

Ⓢ $\frac{3}{4} = \frac{9}{n}$

Ⓖ $\frac{6}{2} = \frac{21}{n}$

Ⓞ $\frac{10}{4} = \frac{n}{6}$

Ⓨ $\frac{5}{15} = \frac{h}{9}$

Ⓣ $\frac{12}{8} = \frac{n}{4}$

Ⓤ $\frac{2}{n} = \frac{5}{25}$

Ⓐ $\frac{33}{n} = \frac{11}{3}$

Ⓛ $\frac{49}{n} = \frac{7}{10}$

Ⓥ $\frac{n}{6} = \frac{6}{9}$

Ⓩ $\frac{n}{4} = \frac{18}{72}$

ⓗ $\frac{n}{2} = \frac{50}{20}$

Ⓦ $\frac{14}{n} = \frac{7}{4}$

ⓔ $\frac{8}{12} = \frac{12}{n}$

Ⓑ $\frac{n}{13} = \frac{4}{1}$

Ⓡ $\frac{24}{6} = \frac{n}{5}$

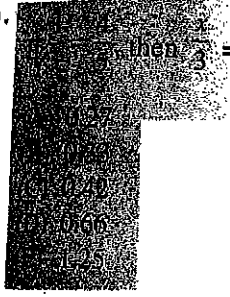
Ⓝ $\frac{n}{10} = \frac{40}{25}$

Ⓟ $\frac{24}{n} = \frac{30}{100}$

Name: _____ Date: _____

SAT TOPIC: SOLVING EQUATIONS

<p>1. If $2x - 2 = -1$, then $x =$</p> <p>A) 1 B) 0.5 C) -1.5 D) -3</p>	<p>2. If $\frac{2a-3}{3} = -\frac{1}{2}$, then $a =$</p>
<p>3. If $\frac{5s+3}{3} = 21$, then $s =$</p>	<p>4. If $\frac{3(8x-2)+5}{5} = 4$, then $x =$</p>
<p>5. What is the value of z if $2(z+3) = 6$?</p> <p>A) -6 B) -3 C) -2 D) 0</p>	<p>6. If $q = \frac{q+6}{3}$, then $q =$</p> <p>A) 2 B) 3 C) 5 D) 6</p>
<p>7. If $\frac{x+2}{3} = 2$, then $x =$</p> <p>A) 2 B) 4 C) 6 D) 8</p>	<p>8. If $4(k+1) = k+10$, then $3k =$</p> <p>A) $\frac{3}{2}$ B) $\frac{5}{2}$ C) 2 D) 6</p>
<p>9. If $\frac{z+1}{3} = 0$, then $z+1 =$</p> <p>A) -1 B) $-\frac{1}{3}$ C) 0 D) 2</p>	<p>10. If $\frac{2x+1}{3} = \frac{4}{3}$, then $x =$</p> <p>A) 1 B) 1.33 C) 1.5 D) 3</p>

<p>11. What is the value of p if $\frac{5(p-1)}{4} - 1 = 0$?</p> <p>A) 1 B) $\frac{5}{9}$ C) $\frac{5}{4}$ D) $\frac{9}{5}$</p>	<p>12. If $\frac{3a+2}{a} = 11$, then what is the value of $\frac{1}{a}$?</p> <p>A) $\frac{1}{4}$ B) 4 C) 8 D) 11</p>
<p>13. If $\frac{3x-2}{4} = x$, then what is the value of x?</p> <p>A) -2 B) 0 C) $\frac{1}{3}$ D) 2</p>	<p>14. What is the value of $x + 2$ if $\frac{5(x+2)}{3} = 10$?</p> <p>A) 1 B) 4 C) 5 D) 6</p>
<p>15. What is the value of $x - 1$ if $\frac{3(x-1)}{4} = 9$?</p> <p>A) 2 B) 8 C) 12 D) 13</p>	<p>16. $2x + 4 = 8$, $6x + 12 =$</p> <p>A. 2 B. 4 C. 8 D. 16 E. 24</p>
<p>17.</p> <p>If $\frac{x}{8} = \frac{1}{5}$, then $\frac{x}{6} =$</p> <p>a) $\frac{1}{12}$ b) $\frac{5}{48}$ c) $3\frac{3}{4}$ d) $\frac{4}{15}$ e) $9\frac{3}{5}$</p>	<p>18.  then $\frac{1}{3} =$</p>
<p>19.</p> <p>If $\frac{303+x}{11} = 33$, then $x =$</p> <p>a) 3 b) 6 c) 30 d) 60 e) 90</p>	<p>20.</p> <p>If $1 + 2 + 3 + 4 + 5 + 6 = x + 8 + 9$, then $x =$</p> <p>a) 1 b) 2 c) 3 d) 4 e) 5</p>