

SOLUTIONS

① 300

② 114

③ $2+3+4+5+5+12=31$

$\frac{31}{6} = 5 \frac{1}{6}$

④ $x = 2$

⑤ $\frac{14}{3} = 4 \frac{2}{3} \rightarrow 5$

⑥ 625

⑦ $\sqrt{3+30-5+36}$

$\sqrt{64} = 8$

⑧ Jason catches up 5 meters/second. $\frac{100}{5} = 20$ $y=1 \rightarrow (1,1)$

⑨ $5 \cdot 4 \cdot 3 \cdot 2 \cdot 1 = 120$

⑩ $5 \begin{array}{r} 60 \\ 3 \overline{) 12} \end{array} \begin{array}{r} 135 \\ 27 \\ 4 \quad 9 \end{array}$

$5 \cdot 3 = 15$

⑪ $34 - 6 = 204$

⑫ $3 \cdot 1337 = 4011$

⑬ $27 - 8 = 19$

⑭ $\frac{6-8}{8-6} = \frac{-2}{2} = -1$

⑮ $\frac{9}{12} + \frac{16}{12} = \frac{25}{12}$

⑯ $96 - 32 = 64$

$\frac{64}{8} = 21 \frac{1}{3} \rightarrow 22.5 = 110$

⑰ $400 + 2100 = 2500$

⑱ $\frac{x+10+12+10}{4} = 16$

$x + 32 = 64$

$x = 32$

⑲ $\frac{100-5}{2} = 250$

⑳ $7 \cdot 3 \cdot 5 = 105$

㉑ $288 = 12\sqrt{2}$

② 144

② 12

㉒ $1 \ 1 \ 2 \ 3 \ 5 \ 8 \ 13$

㉓ $\frac{6+(-2)}{2} = 2, \frac{12+42}{2} = 27 \ (2, 27)$

㉔ 0.2019

㉕ 25 or 25%

㉖ $s \begin{array}{c} \diagdown \\ \square \\ \diagup \end{array} s \quad s^2 + s^2 = 2^2$

$2s^2 = 4$

$s^2 = 2$

$s = \sqrt{2} \quad A = (\sqrt{2})^2 = 2$

㉗ $24 \cdot 7 = 168, 168 \cdot 3 = 504$

㉘ $x = 4x - 3, -3x = -3, x = 1$

㉙ $7^3 = 343, 3+0 = 3$

㉚ $12x = 180 \rightarrow x = 15 \rightarrow 4(15) = 60$

㉛ $y = 16 - 2 = 14, x = \sqrt{14+2} = 4$

$14+4 = 18$

㉜ $22\% \text{ of } 100 = 22$

$10\% \text{ of } 22 = 2.2$

㉝ $SA = 4\pi r^2 \rightarrow = 4\pi \cdot 3^2 = 36\pi$

㉞ 6 math problems in 1

hour, $6 \cdot 24 = 144$

㉟ To get seven: 1-6, 6-1, 2-5,

5-2, 3-4, 4-3 $\rightarrow \frac{6}{36} = \frac{1}{6}$

㊱ $34:66 \rightarrow 10:33$

㊲ $x = 59, y = -13$. Distance

is $59 - (-13) = 72$

㊳ $(12 \cdot 3) + 7 = 36 + 7 = 43$

㊴ $9 + 12.50 + 32 = 53.50$

$60 - 53.50 = \$6.50$

㊵ 20