Chiles Mini Mu
12/10/2011

Elementary
North America

SOLUTIONS

① $\frac{22}{12} + \frac{17}{6} + \frac{432}{24} + \frac{1}{3}$

$\frac{11}{6} + \frac{17}{6} + \frac{108}{6} + \frac{2}{6} =$

$\frac{138}{6} = 23$ (B)

② 250 (B)

× .05

12.50

③ (D)

④ (D)

⑤ $2+2+3+4+9 = 20$

$20 \div 5 = 4$ (A)

⑥ 2, 2, 3, 4, 9 (B)

⑦ 2 (A)

⑧ 18 (D)

× 2.5

90

360

45.0

⑨ perimeter

$4+4+6+6 =$ 20

area $4 \times 6 =$ + 24

44 (C)

⑩ 526 (C)

× 4

2104

⑪ Houston 9:00 pm

Tally 10:00 pm

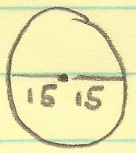
+ 12 hours

10:00 am

+ 2 hours

noon (D)

⑫ (A)

⑬ 

area $= \pi r^2$

$= \pi (15)^2$

$= 225\pi$ (C)

⑭ 1:99 (B)

⑮ 10 U.S = 20.00 B.D.

+ 5.28 B.D.

14.72 B.D = 7.36 US

(B)

(16) 16 r. 11 (B)

$$\begin{array}{r} 16 \text{ r. } 11 \\ 32 \overline{)523} \\ -\,32 \\ \hline 203 \\ -\,192 \\ \hline 11 \end{array}$$

(17) 1, 1, 2, 3, 5, 8, 13, 21

1+1=2, 1+2=3, 3+5=8,

5+8=13, 8+13=21

3+13+21=37 (D)

(18) $\frac{500 \text{ ft.}}{30 \text{ sec}}$ (C)

(19) 723 (C)

+228

951

(20) 5 min 30 sec = 5.5 min.

$$\begin{array}{r} 4.72 \\ 5.5 \overline{)26.00} \\ -220\downarrow \\ \hline 400 \\ -385\downarrow \\ \hline 150 \\ -110 \\ \hline 40 \end{array}$$

(B)

(21) 1+2+3+4+5+6+

7+8+9+10 = 55 ft.

(D)

(22) enchilada 3.22×3 = 9.66

quesadilla 4.04×4 = 16.16

burrito 5.67×2 = +11.34

37.16

50.00

- 37.16

12.84

(B)

(23) prime numbers to 100

2, 3, 5, 7, 11, 13, 17, 19, 23,

29, 31, 37, 41, 43, 47, 53,

59, 61, 67, 71, 73, 79, 83,

89, 97 → 25 primes

100 - 25 = 75 (D)

(24) 18: 18, 36, 54, (72), 90

36: 36, (72) 108

72: (72), 144 (D)

(25) $\frac{1}{4} \times \frac{1}{3} = \frac{1}{12}$

Still in line

$\frac{1}{3} + \frac{1}{3} + \frac{1}{12}$

$\downarrow \quad \downarrow \quad \downarrow$

$\frac{4}{12} + \frac{4}{12} + \frac{1}{12} = \frac{9}{12} = \frac{3}{4}$

$\frac{3}{4}$ of an hour is 45 minutes (A)

(26) $|(-4)^2 \times (4)^2| =$

$|16 \times 16| = |256|$

$= 256$ (D)

(27) (E) maple leaf

(28) $\frac{1815}{5280} = \frac{11}{32}$ (B)

(29) 200 km/liter x 12 liters = 2400 km range. One way is 2000 km. Boat will make it 400 km back.

(A)

(30) (A)