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TCAP benchmark #1 (yellow packet)

$$\textcircled{3} \quad 12(x+3) + 8x + 12$$

$$12x + 36 + 8x + 12$$

- group like terms -

$$20x + 48$$

$$\begin{array}{r} 4 \times 13 \\ 4(10+3) \\ \hline 13 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \times 3 = 12 \\ 4 \times 10 = 40 \\ \hline 52 \end{array}$$

practice problem

$$\text{A) } 3(2x+8) + 8(3x+9)$$
$$6x + 24 + 24x + 72$$

$$30x + 96$$

$$\text{B) } 4(12x+9+1) + 7(8x)$$
$$48x + 36 + 4 + 56x$$

$$104x + 40$$

$$\text{C) } 12(2x+8) + 8x + 2(3x+4)$$
$$24x + 96 + 8x + 6x + 8$$

$$38x + 104$$

$$\begin{array}{r} 42 \\ \times 7 \\ \hline \end{array} = 40 + 2, \quad \underbrace{\hspace{1.5cm}}_{7}$$

$$\begin{array}{r} 7 \times 2 = 14 \\ 40 \times 7 = 280 \\ \hline \end{array} \quad \left. \vphantom{\begin{array}{r} 7 \times 2 = 14 \\ 40 \times 7 = 280 \\ \hline \end{array}} \right\} 294$$

$$\overbrace{7(42)}$$

$$\begin{array}{r} 2(x+2) \\ \hline 2x+4 \end{array}$$

$$\begin{array}{r} 42 \\ \times 7 \\ \hline 294 \end{array}$$

$$\begin{array}{r} (x+2) \\ \times 2 \\ \hline 2x+4 \end{array}$$

$$\begin{aligned} \text{D) } & 4(3x) + 2x + 9 + 3(3x+4) \\ & 12x + 2x + 9 + 9x + 12 \\ & \quad \underbrace{23x + 21} \end{aligned}$$

④ $3\frac{3}{4}$ inches

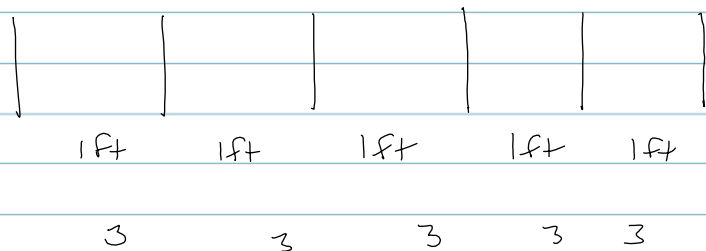
5 ft wide

$$60 \div 3.75$$

↓
60 inches

$$60 \div 3\frac{3}{4} = \frac{15}{4}$$

$$\frac{60^4}{1} \times \frac{4}{15} = \frac{16}{1} = \textcircled{16}$$



2^{3/4}" in 6 ft

$$72 \div 2\frac{3}{4}$$

$$\frac{72}{1} \cdot \frac{4}{11} = \frac{288}{11} = 26\frac{2}{11}$$

1/2 of 6
6 ÷ 2
6 · 1/2

A) 26.027

B) 27

C) 26 2/11

% = hundredth

1% = 0.01

⑤ 3^{2/5} times its original

340%

3.4

1 = 100%

2 = 200%

3 = 300%

.4 = 40%

} 340%

1 = 100% 1 whole
3 = 300%

8% = .08

80% = .8

23% = .23

48.9 = 0 ~~4800~~
4890%

4890.

150% = 1.5

279% = 2.79

8.5% = ~~.085~~ .085

12.1 = 1210%

8.25% = .0825

12.75% = .1275