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(29) $\frac{1}{3} * 20 = \frac{20}{3} = 6\frac{2}{3}$ cups (oil)

(vin)

$\frac{20}{1} * \frac{1}{4} = \frac{20}{4} = 5$ cups

Cross cancel
 $5\frac{20}{1} * \frac{1}{4} = \frac{5}{1} = 5$

proportions
cross mult.

(30) 1st .25 of \$4.00 = \$1
not an answer

~~$\frac{2}{4} = \frac{x}{8}$~~

2nd \$4 ÷ .25 ✓

$\frac{16}{4} = \frac{4x}{4}$

3rd 4 x 4 = 16 ✓

4 = x

\$4 ÷ there a 4 (.25) in each \$

$\frac{2}{4} = \frac{4}{8}$

4th \$4 ÷ $\frac{1}{4}$ ✓

(37) $\frac{3}{4} + \frac{1}{2} + \frac{2}{3} + \frac{3}{4}$
 $1\frac{1}{2} + \frac{1}{2} = 2$ ✓ = $2\frac{2}{3}$

$\frac{3}{4} = \frac{9}{12}$
 $\frac{1}{2} = \frac{6}{12}$
 $\frac{2}{3} = \frac{8}{12}$
 $+ \frac{3}{4} = \frac{9}{12}$

$\frac{32}{12} = 2\frac{8}{12} = 2\frac{2}{3}$

38

$$\begin{array}{r} 12 \\ 5 \overline{) 60} \\ \underline{5} \\ 10 \\ \underline{10} \\ 0 \end{array}$$

1 pizza = 12 slices

$$5 = 60$$

$$6 = 72$$

$$7 = 84$$

$$\begin{array}{r} 12 \\ \times 7 \\ \hline 84 \end{array}$$

$$\frac{60}{5} = \frac{x}{7}$$

proportion

$$\frac{5x}{5} = \frac{420}{5}$$

connection

x	:
1	12
2	24
3	36
4	48
5	60
6	72
7	84
8	96

$$x = 84$$

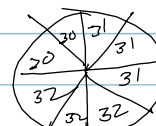
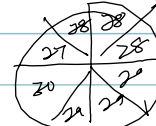
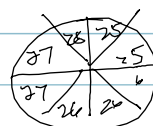
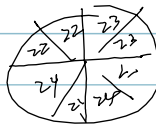
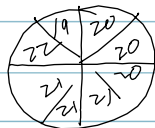
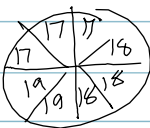
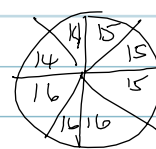
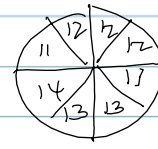
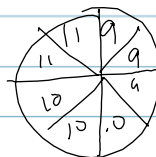
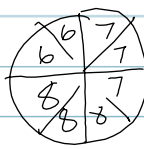
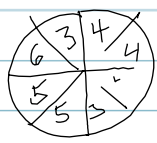
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④ $4 \cdot \frac{1}{8} = 4 + \frac{8}{1} = \frac{32}{1}$

① $12 \div \frac{1}{2}$

12

$\frac{3}{8}$



$\frac{1}{2}$ of $\frac{1}{2} = \frac{1}{4}$

~~$\frac{1}{4}$~~ $\frac{1}{2}$ of $\frac{1}{4} = \frac{1}{8}$

$12 \div \frac{3}{8} = 32$

$12 \div \frac{3}{8} = 32$

~~$12 \times 8 = 32$~~

$\frac{12}{1} \times \frac{8}{3} = \frac{96}{3} = 32$

inverse = undo operation

$$\text{reciprocal} = \frac{1}{2} * \frac{2}{1} = \frac{2}{2} = 1$$

number multiplied by another = 1

video —