

Practice Test #1 F08 Test #1a

① Total =  $2\frac{1}{2}$  c. = Serves  $\cdot$  Per Serves  $\rightarrow$

Serves = 24

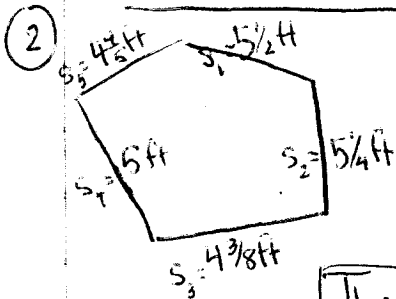
Per Serve = x

$2\frac{1}{2} = 24x$

$\frac{1}{24} \cdot \frac{5}{2} = 24x \cdot \frac{1}{24}$

$\frac{5}{48} = x$

$\frac{5}{48}$  c. per serving



$P = s_1 + s_2 + s_3 + s_4 + s_5 = 5\frac{1}{2} + 5\frac{1}{4} + 4\frac{3}{8} + 5 + 4\frac{1}{2}$   
 $= 5\frac{20}{40} + 5\frac{10}{40} + 4\frac{15}{40} + 5 + 4\frac{32}{40}$   
 $= 23\frac{77}{40} = 23 + 1\frac{37}{40} = \boxed{24\frac{37}{40} \text{ ft}}$

The perimeter is  $24\frac{37}{40}$  ft

③ Ea Rope =  $1\frac{1}{4}$  ft.

# = 20 ropes

Total = (Ea)(#)

$(1\frac{1}{4})(20) = \frac{5}{4} \cdot \frac{20}{1} = \boxed{25 \text{ ft of rope needed}}$

④  $x^2 + y(x-9) \Rightarrow (12)^2 + (5)[(12)-9] = 144 + 5(3) = 144 + 15 = \boxed{159}$

if  $x=12$  &  $y=5$

⑤ a)  $5\frac{11}{12} \cdot \frac{13 \cdot 2}{36 \cdot 2} = \frac{26}{72} + \frac{72}{72} = \frac{98}{72}$

b)  $\frac{15}{6 \cdot 5} + \frac{3 \cdot 3}{10 \cdot 3} = \frac{5}{30} + \frac{9}{30} = \frac{14 \cdot 2}{30 \cdot 2} = \boxed{\frac{7}{15}}$

$40 = 2 \cdot 2 \cdot 5 = 72$

$36 = 2 \cdot 2 \cdot 3$

$24 = 2 \cdot 2 \cdot 3$

$237 \frac{23 \cdot 3}{24 \cdot 3} \frac{69}{72}$

$\boxed{304 \frac{29}{72}}$

$40 = 2 \cdot 3 \cdot 5 = 30$

c)  $(\frac{3}{10}) (\frac{4}{7}) = \boxed{\frac{3}{28}}$

d)  $\frac{4}{30} \cdot \frac{5}{14} = \frac{4}{30} \cdot \frac{14}{5} = \boxed{\frac{28}{75}}$

e)  $1\frac{1}{5} \cdot 7\frac{2}{5} = \frac{6}{5} \cdot \frac{12}{5} = \frac{72}{25} = \boxed{2\frac{22}{25}}$

f)  $5 \div 2\frac{2}{3} = 5 \div \frac{8}{3} = 5 \cdot \frac{3}{8} = \frac{15}{8} = \boxed{1\frac{7}{8}}$

Practice Test #1 Cond p. 2

5) (g)  $1\frac{1}{2} \div 2 = \frac{3}{2} \div \frac{2}{1} = \frac{3}{2} \cdot \frac{1}{2} = \frac{3}{4}$  (h)  $5 + \frac{12}{23} = \boxed{5\frac{12}{23}}$

(i)  $5 \cdot \frac{1}{3} = \frac{5}{1} \cdot \frac{1}{3} = \frac{5}{3} = \boxed{1\frac{2}{3}}$  (j) No J

6) (a)  $8 - 2^3 \div 4 = 8 - \frac{8}{4} = 8 - 2 = \boxed{6}$

(b)  $24 \div 6 \cdot 2 + 2 = 4 \cdot 2 + 2 = 8 + 2 = \boxed{10}$

(c)  $2 \cdot 8 - 2^3 \div 4 + 2(13 - 10 + 5) = 16 - \frac{8}{4} + 2(18)$

$= 16 - 2 + 36 = 14 + 36 = \boxed{50}$

7) (a) The quotient of some # and 9, less 18. Let  $x = \#$

$\boxed{\frac{x}{9} - 18}$

(b) The product of thirteen and a #, subtracted from 12.

Let  $x = \#$   $\boxed{12 - 13x}$

8) (a)  $-13 + 24 = +(24 - 13) = \boxed{11}$

(b)  $-19 + 13 = -(19 - 13) = \boxed{-6}$

(c)  $13 + -19 = -(19 - 13) = \boxed{-6}$

9) (a)  $\frac{-(-11)}{11} > \frac{-|-11|}{-11}$  (b)  $\frac{|-7|}{7} = \frac{|7|}{7}$

Practice Test #1 Cond p.3

⑩

Fractions	Decimals	Percentage
$\frac{4}{5}$	$\frac{0.8}{5 \overline{) 4.0}}$   $10.81$	$80\%$
$\frac{5}{8}$	$0.625$	$62.5\%$ or $62\frac{1}{2}\%$
$\frac{21}{50}$	$0.42$	$42\%$
$2\frac{1}{3}$	$\frac{2.33}{3 \overline{) 7.00}}$   $2.33$	$233.\overline{33}\%$ or $233\frac{1}{3}\%$

⑪

There is no 11! That's it!