9-18-13 Test 4 Monday 9-23

Review Quiz 4
3
2
1 ← Blast off

Tests 67%
Quizzes 33%

Main Score

Quizzes filter BookInfo.

Tests are similar to Quizzes

Flow Chart:

Book → Quizzes → Tests

9-18-13

QUIZ 1, 2, 3, 4 REVIEW (2

THEMES and notes

CH1

QUIZ 1

1.1 (1.) Evaluation

(2.) area: rectangle, triangle, parallelogram

Area = $b \cdot h$

$\frac{1}{2} \cdot b \cdot h$

(3.) translation

ETC

Quiz 2

(7.) $2 - 100 = 2 + (-100)$

$= -(100 - 2)$

$= -(98)$

$= -98$

Quiz Review 5

Quiz 2

(3

#12.)

every # of − : original #

odd # of − : opposite #

Quiz 3

(1.) $(-3)\cdot(-24)\cdot(-1000)(-1)(-1)$

Answers

3 zeros

-72000

(3.)

$$-9\overline{)729}\quad -81$$

72

9

9

0

Quiz 3

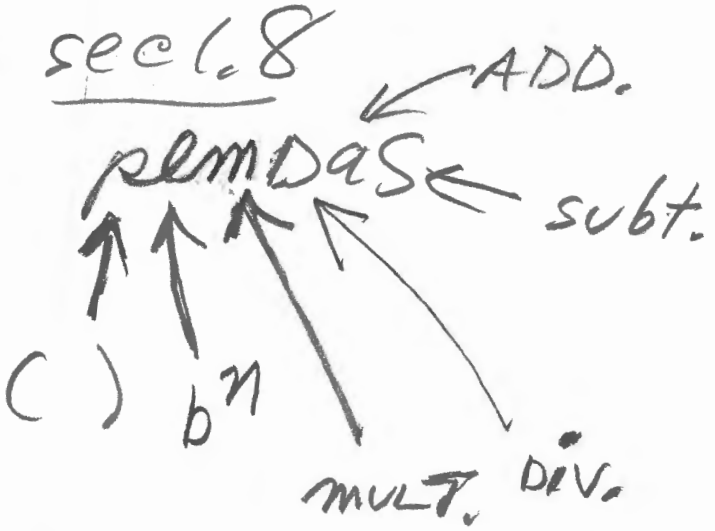
(4)

(4.) $\left(-\frac{7}{4}\right)\cdot\left(-\frac{3}{5}\right)\cdot\left(\frac{1}{2}\right)$

on test no forward slashes used for fractions

(5.) $84\cdot\frac{1}{84}=\frac{84}{84}=1$

(8.) sec 1.8



PeDMAS } other
PeDMSA } versions.

Quiz #4 Part 1

#3.

$$\frac{2}{3}x - 1 = 5$$

$$+1 \quad +1$$

$$\frac{2}{3}x = 6$$

#4.

$$7x = 35$$

$$\frac{7x}{7} = \frac{35}{7}$$

$$x = 5$$

#6

$$P = 2L + 2W$$

$$P = 2(L + W)$$

$$P = 2L + 2W$$

$$-2L \quad -2L$$

$$P - 2L = 2W$$

#6) Quiz 4 PART 1.

$$P - 2L = 2W$$

$$\frac{P-2L}{2} = \frac{2W}{2}$$

$$\frac{P-2L}{2} = W$$

#7.

$$3y + 2x = 6$$

$$-3y \qquad -3y$$

$$2x = 6 - 3y$$

$$\frac{2x}{2} = \frac{6-3y}{2}$$

$$x = \frac{6-3y}{2}$$

Also write

$$x = \frac{6-3y}{2}$$

$$= 3 - \frac{3}{2}y$$

Quiz 4

(8) $2E = ah + ch$

$2E = (a+c)\cdot h$

$\frac{2E}{(a+c)} = \frac{(a+c)\cdot h}{(a+c)}$

$\frac{2E}{(a+c)} = h$

FOR h

Example: $E = \frac{1}{2}ah + \frac{1}{2}ch + 52$

$-52 \qquad\qquad -52$

$E - 52 = \frac{1}{2}ah + \frac{1}{2}ch$

$2\cdot(E-52) = 2\left(\frac{1}{2}ah + \frac{1}{2}ch\right)$

Quiz 4

example on #8

$$2(E-52) = ah + ch$$

$$2\cdot(E-52) = (a+c)\cdot h$$

$$\frac{2(E-52)}{(a+c)} = \frac{(a+c)\cdot h}{(a+c)}$$

$$\frac{2\cdot(E-52)}{(a+c)} = h$$

9-18-13 Quiz 4 Solutions

take home

neg · neg = pos

(9.) $m = 19 - 5\cdot(x - n)$

$m = 19 - 5x + 5n$

$-19 \quad -19$

$m - 19 = -5x + 5n$

$+5x \quad +5x$

$m - 19 + 5x = 5n$

$\frac{(m - 19 + 5x)}{5} = \frac{5n}{5}$

$\boxed{\frac{(m - 19 + 5x)}{5} = n} = \boxed{\frac{m}{5} - \frac{19}{5} - x}$

NOT NECESSARY

(10.) (9.) $15 = n \cdot 60$

$\frac{15}{60} = \frac{n \cdot 60}{60}$

$\frac{15}{60} = n$ convert to %

$\frac{15}{60}$

(10

#10 (a) $\frac{15}{60} = n$

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

$\frac{5}{20} = n$

$\frac{1}{4} = n$

$0.25 = n$

$n = 25\%$

$4\overline{)1.00}$
-8
20

(b) $x = 0.30 \cdot 240$

NOTE: $30\% = 0.30$

240
$\times 0.30$ (2 digits behind.)
000
720
7200

$x = 72.00$

$\boxed{x = 72}$

11.

(a.) $6 = n \cdot 24$

$\frac{6}{24} = n$

$\frac{1}{4} = n$

$0.25 = n$

$25\% = n$

$\frac{6}{24} = \frac{n \cdot 24}{24}$

see #10(a)

(b.) WHAT # IS 20% of 80

$x = 0.20 \cdot 80 = 16$

$80 \times 0.20 = 16.00$

Restate:

16 is 20% of 80

(12.) (a) $10x - 2 = 68$

note: could write:

$-2 + 10x = 68$

$10x - 2 = 68$

$+2 \quad +2$

$10x = 70$

$\frac{10x}{10} = \frac{70}{10}$

$\boxed{x = 7}$

(b) $P = 2(L + w)$

and $w = L - 20$

METHOD 1 THUS $P = 2 \cdot (L + L - 90)$

(SYMBOLIC) FOR EXPERTS $P = 2(2L - 90)$

$P = 4L - 180$

12(b.)

$P = 4L - 180$

$+180 \qquad +180$

$P + 180 = 4L$

$\frac{P+180}{4} = \frac{4L}{4}$

$\boxed{\frac{P+180}{4} = L}$

PLUGIN $P = 1280$

$\frac{1280+180}{4} = L$

$1280 + 180 = 1460$

$\frac{1460}{4} = L$

$365 = L$

$\boxed{365_{mi} = L}$

$4\overline{)1460}$ → 365, 12, 26, -24, 20

and $W = 365 - 90$

$365 - 90 = 275$

$\boxed{275_{mi}}$

12(b)

CLEVER WAY (less symbols)

METHOD 2

(Recommended for most users)

$P = 2 \cdot (L + W)$

$1280 = 2 \cdot (L + L - 90)$

$1280 = 2 \cdot (2L - 90)$

$1280 = 4L - 180$

$+180 \qquad +180$

$1460 = 4L$

$\frac{1460}{4} = L$

$365 = L$ as before

$W = L - 90 = 365 - 90$

$= 275$ mi

as before