

Class/Homework

Page 97-98

#9(a,c...no tiles), #11a, #13a, #16, #20, #21, #22, #23

Practice test
Page 99 #1, 2, 3, 4, 5

Test tomorrow

All solutions to tonight's homework will be
posted on line in this VERY lesson

Gr. 8

Practice Test

Pg 99

$$\begin{aligned} \text{a)} \quad & (+9) \times (+10) \\ & = (+90) \end{aligned}$$

$$\begin{aligned} \text{b)} \quad & (+6) \times (-11) \\ & = (-66) \end{aligned}$$

$$\begin{aligned} \text{c)} \quad & (+96) \div (-16) \\ & = (-6) \end{aligned}$$

$$\begin{aligned} \text{d)} \quad & (+39) \div (+3) \\ & = (+13) \end{aligned}$$

$$\begin{aligned} \text{e)} \quad & (-8) \times (+6) \\ & = (-48) \end{aligned}$$

$$\begin{aligned} \text{f)} \quad & (-36) \div (+9) \\ & = (-4) \end{aligned}$$

$$\begin{aligned} \text{g)} \quad & (-44) \div (-4) \\ & = (+11) \end{aligned}$$

$$\begin{aligned} \text{h)} \quad & (-5) \times (-1) \\ & = (+5) \end{aligned}$$

$$\begin{aligned}
 2) a) & \quad (-20)(-5) + 16 \div (-8) \\
 & = \underbrace{(+100)} + 16 \div \underbrace{(-8)} \\
 & = (+100) + \underbrace{(-2)} \\
 & = (+98)
 \end{aligned}$$

$$2b) \quad \frac{14 - 10 \div 2}{-3} \qquad \text{Top: } \begin{array}{l} 14 - 10 \div 2 \\ 14 - 5 \\ = 9 \end{array}$$

$$\frac{\text{Top}}{\text{Bott}} = \frac{9}{-3} = \boxed{-3}$$

$$c) \quad \frac{[(-9) - (-2)] \times [8 + (-4)]}{(-14) \div (-2)}$$

$$\text{Bottom} \Rightarrow \frac{(+4) \div (-2)}{= (+1)}$$

$$\begin{aligned}
 & \text{Top} \\
 \Rightarrow & \quad [(-9) - (-2)] \times [8 + (-4)] \\
 & = [(-9) + (+2)] \times [8 + (-4)] \\
 & = \underbrace{[-7]} \times \underbrace{[8 + (-4)]} \\
 & = (-7) \times (+4) \\
 & = (-28)
 \end{aligned}$$

$$\frac{\text{Top}}{\text{Bott}} = \frac{-28}{+1} = \boxed{-28}$$

2d)

$$[7 - (-2)] \times 2 + (-12) \div (-4)$$

$$= [7 + (+2)] \times 2 + (-12) \div (-4)$$

$$= (+9) \times 2 + (-12) \div (-4)$$

$$= (+18) + (-12) \div (-4)$$

$$= (+18) + (+3)$$

$$= \boxed{+21}$$

3

Sun $\Rightarrow 4^\circ$

Monday $(-8)^\circ$

Tuesday $-2 \times \text{Monday}$

$$\begin{aligned}
 & (4 - 8) - 2 \text{ Monday} \\
 & (4 - 8) - 2(8^\circ) \\
 & (4^\circ + (-8)^\circ) - 2 \times 8 \\
 & (-4^\circ\text{C}) - 16^\circ \\
 & = -20^\circ\text{C}
 \end{aligned}$$

The temperature on Tuesday was -20°C .

4) Receive is positive
Pay out is negative

a) $6 \times (+15)$
 $= +90$
You received
\$90

b) Pay out 3 Bills of
\$35
 $(-3) \times (35)$
 $= -105$
Spend \$105

d) $(+7) \times 9 \text{ cases}$
 $+ 63$
Received \$63

5) 0, -2, +3, -1, +1, +2, +4

a) quotient of -2

$$(+4) \div (-2)$$

b) greatest product \Rightarrow must be \oplus
 $(+4) \times (+3) = +12$

c) least sum

$$(-1) + (-2) = -3$$

d) quotient less than -3

$$(+4) \div (-1) = -4$$

e) ... many answers