

Math 20, Tuesday, July 22

Math Jokes

→ Turn in Test Corrections and midterm
self-assessment

Warm-up + Homework check-in's

Q's on 3.7 + 4.1

New material

4.2, 4.3, 4.4

Mission 2 due Thursday

Checkpoint 4 on Thursday (3.7, 4.1-4.4)

2nd Boss/Test next Tuesday

Review Handout today

What about the...

Warm-up Problems

$$\begin{aligned}
 \textcircled{1} \quad & -\frac{7}{8} - \left(\frac{1}{8}\right)\left(\frac{2}{3}\right) \text{ no LCD} \\
 & = -\frac{7 \cdot 3}{8 \cdot 3} - \frac{1 \cdot 2}{12 \cdot 2} \text{ LCD} = 24 \\
 & = \frac{-21}{24} - \frac{2}{24} \\
 & = \frac{-23}{24}
 \end{aligned}$$

P
E
M
D
A
S

$$\begin{aligned}
 \textcircled{2} \quad & -\frac{3}{16} - \left(-\frac{1}{2}\right)^3 \\
 & = -\frac{3}{16} - \left(-\frac{1}{2}\right)\left(-\frac{1}{2}\right)\left(-\frac{1}{2}\right) \\
 & = -\frac{3}{16} - \left(-\frac{1}{8}\right) \cdot 2 \text{ LCD} = 16 \\
 & = -\frac{3}{16} + \frac{2}{16} \\
 & = -\frac{1}{16}
 \end{aligned}$$

③ Round 14.53261 to the nearest

a) Tenth 14.5

c) ones place

b) Thousandth 14.533

14.5330
↑

c) one 15

9.3012

9.30

Q's on 3.7

19
21

$$\begin{aligned}
 49. \quad & \frac{2}{3} \left(-\frac{1}{4} \right) + \frac{1}{2} \\
 = & -\frac{1}{6} + \frac{1}{2} \cdot \frac{3}{3} \quad \text{LCD} = 6 \\
 = & -\frac{1}{6} + \frac{3}{6} \\
 = & \frac{2}{6} \\
 = & \frac{1}{3}
 \end{aligned}$$

different problem

$$\frac{2}{3} - \left(-\frac{1}{4} \right) + \frac{1}{2}$$

$$\begin{aligned}
 21. \quad & \left(\frac{15}{16} - \frac{1}{8} \right) \div \left(-9 \frac{3}{4} \right) \quad \text{LCD} = 16 \\
 = & \left(\frac{15}{16} - \frac{2}{16} \right) \div \left(-\frac{39}{4} \right) \\
 = & \frac{13}{16} \div \left(-\frac{4}{39} \right) \\
 = & -\frac{1}{12}
 \end{aligned}$$

Add sub LCD no cross-cancel	Mult no LCD cross-cancel	Div flip + mult
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Q's on 4.1

91. 1,025.78

89. -0.7
-0.7

97. \$1.01857

1.99 ← cents
Place
hundredths

\$1.02

1.20091

\$1.20

0.16438

\$0.16

16¢

0.00074
↙
\$ 0.00

Section 4.2 ~ Adding + Subtracting Decimals

$$\begin{array}{r} 16. \\ 16.3 \\ + 3.5 \\ \hline 19.8 \end{array}$$

Line up decimals vertically and bring it straight down in your answer

$$20. \quad 46.228 + 5.6 + 39. + 19.37$$

$$\begin{array}{r} 46.228 \\ 5.600 \\ 39.000 \\ + 19.370 \\ \hline 110.198 \end{array}$$

$$\begin{array}{r} 26. \quad 7.56 \\ - 2.33 \\ \hline 5.23 \end{array}$$

$$\begin{array}{r} 30. \quad 767.2 \\ - 614.7 \\ \hline 152.5 \end{array}$$

$$36. \quad -9.2 + (-6.7)$$

$$\begin{array}{r} -9.2 \\ + -6.7 \\ \hline -15.9 \end{array}$$

same direction
add values
answer negative

$$40. \quad 7.24 + (-19.7)$$

$$\begin{array}{r} 19.7^{\circ}0 \\ - 7.24 \\ \hline -12.46 \end{array}$$

Put the larger
~~the~~ value on top

Answer negative

$$48. \quad -5.76 - (-13.6)$$

$$= -5.76 + 13.6$$

opposite signs
subtract

~~B.~~

$$= 7.84$$

$$\begin{array}{r} 13.6^{\circ}0 \\ - 5.76 \\ \hline 7.84 \end{array}$$

2:30

$$52. \quad -12.3 - (-13.6 + 7.9)$$

$$= -12.3 - (-5.7)$$

$$= -12.3 + 5.7$$

$$= -6.6$$

Parentheses
first

Calculations
on the side

$$\begin{array}{r} 13.6^{\circ} \\ - 7.9 \\ \hline -5.7 \\ 12.3^{\circ} \\ - 5.7 \\ \hline -6.6 \end{array}$$

$$74. \quad 3.4 - (6.6 + 7.3)$$

$$= 3.4 - 13.9$$

$$= -10.5$$

$$\begin{array}{r} 7.3 \\ + 6.6 \\ \hline 13.9 \end{array}$$

$$\begin{array}{r} 13.9 \\ - 3.4 \\ \hline 10.5 \end{array}$$