

6th Honors: Evaluate the following by showing all steps.

Warm-up: $2 \cdot 2 \cdot 2$

1. $3 - 2 + 6 \cdot 2^3$
 $3 - 2 + 6 \cdot 8$
 $3 - 2 + 48$
 $\frac{1 + 48}{49}$

2. $\frac{(3 \cdot 3 - 3)^2}{(9 - 3)^2} \div 3 + 3$
 $\frac{6^2 \div 3 + 3}{12 \div 3 + 3}$
 $\frac{15}{15}$ $x=2$ and $m=4$

3. $2^5 - (4 \cdot 5 + 3)$
 $2^5 - (20 + 3)$
 $2^5 - 23$
 $32 - 23$
 9

4. $4x^2 + 6m \div 4x^x$
 Substitute $4(2^2) + 6(4) \div 4(2)$
 $4(4) + 6(4) \div 4(2)$
 $16 + 24 \div 4(2)$
 $16 + 6(2)$
 $16 + 12$
 28

25.) $\frac{x+y}{x}$
 $\frac{3+6}{3}$
 $\frac{9}{3}$
 3

~~$\frac{3+6}{3+2}$
 $\frac{9}{5}$~~

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9) $11(8+3^2) - 15$
 $11(8+9) - 15$
 $11(17) - 15$
 $187 - 15$
 172

22) $(8-2)^2 + 12 \div 6$
 $(6)^2 + 12 \div 6$
 $36 + 12 \div 6$
 $36 + 2$
 38

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How do we compare and order fractions and decimals? 9/8

Turning a decimal into a fraction: Read the decimal with its place value. Simplify the fraction. *ones tenths hundredths thousandths*

Ex 1: 0.62
 $\frac{62}{100} = \frac{31}{50}$

Ex 2: 3.6
 $3\frac{6}{10}$
 $3\frac{3}{5}$

Ex 3: 1.027
 $\frac{27}{1000}$

Ex 4: 0.0058
 $\frac{58}{10,000}$
 $\frac{29}{5000}$

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Turning a fraction into a decimal fraction:

Method 1: Create Denominators of 10, 100, 1000.

Ex 1. $\frac{4 \cdot 2}{5 \cdot 2} = \frac{8}{10}$
 0.8

Ex 2. $4\frac{3 \cdot 5}{20 \cdot 5} = \frac{15}{100}$
 4.15

Ex 3. $15\frac{9}{10}$
 15.9

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Turning a fraction into a decimal fraction:
 Method 2: Divide the numerator by the denominator. $\frac{n}{d}$

Ex 4. $4\frac{5}{8}$ 4.625 Ex 5. $1\frac{7}{9}$ 1.7

$$\begin{array}{r} 625 \\ 8 \overline{) 5.000} \\ \underline{48} \\ 20 \\ \underline{16} \\ 40 \end{array}$$

$$\begin{array}{r} 70 \\ 9 \overline{) 7.00} \\ \underline{63} \\ 70 \end{array}$$

Ex 6. $\frac{7}{11}$.63

$$\begin{array}{r} 63 \\ 11 \overline{) 7.00} \\ \underline{66} \\ 40 \\ \underline{33} \\ 7 \end{array}$$

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Ordering Decimals and Fractions:
 When ordering both, turn them into either all decimals or all fractions. Be exact.

Ex 7. $0.69, \frac{13}{20}, \frac{1}{2}, 0.6, \frac{17}{25}$ * $\frac{1}{2}, 0.6, \frac{13}{20}, \frac{17}{25}, 0.69$

$$\begin{array}{cccccc} \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \\ \frac{69}{100} & \frac{65}{100} & \frac{50}{100} & \frac{60}{100} & \frac{68}{100} & \end{array}$$

Ex 8. $4.1, \frac{43}{10}, 4.1, 4.02, \frac{17}{4}, 4\frac{1}{5}$

$$\begin{array}{ccc} \downarrow & \downarrow & \downarrow \\ 4.3 & 4.25 & 4.2 \end{array}$$

* $4.02, 4.1, 4\frac{1}{5}, \frac{17}{4}, \frac{43}{10}, 4.41$

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Ex 9. $\frac{3}{4}, \frac{2}{5}, \frac{5}{8}, \frac{7}{10}$ Ex 10. $3\frac{5}{8}, 3\frac{17}{14}, 3\frac{1}{2}$

Ex 11. $2.35, 2.57, 2.562, 2\frac{14}{40}$ Ex 12. $0.03, 0.135, 0.37, 0.879$

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Turning an improper fractions into a mixed number.

Ex 9. $\frac{45}{1}$ 45
 Improper \rightarrow 45 Whole #
 44 $\frac{1}{45}$ mixed #

Ex 10. $\frac{128}{8} \rightarrow 16$

$$\begin{array}{r} 16 \\ 8 \overline{) 128} \\ \underline{8} \\ 48 \\ \underline{48} \\ 0 \end{array}$$

Ex 11. $\frac{57}{13} \rightarrow \frac{45}{13}$ 45

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Turning a mixed number into an improper fraction.

Ex 1B. $13\frac{4}{9}$

$D \times W + N$
 $9 \times 13 + 4$

$\frac{121}{9}$

Ex 1B. $2\frac{7}{8}$

$2 \times 8 + 7$

$\frac{23}{8}$

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1.3 #1-27 odd
1.4 #6-18,23
2.1 #14-16
4.6 # 1-11 odd, 17-19

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HW #2: In your spiral notebook

Pg. 54 #23-45 odd
Pg. 183 #10-29 odd
Pg. 188 #19-27 odd

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username: /st initial lastname
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