

USING ORDER OF OPERATIONS Evaluate the expression. Write fractions in simplest form.
(See Examples 1 and 2.)

14. $3.4 + 2.5 \times 8.4$

$3.4 + 21$

24.4

15. $-\frac{5}{6} \div \left(\frac{1}{3}\right)^2$

$\frac{1}{3} \cdot \frac{1}{3}$

$-\frac{5}{6} \div \frac{1}{9}$
 $-\frac{5}{6} \cdot \frac{9}{1}$

16. $4.9 - 7.2 \div 1.6$

$4.9 - 4.5$

0.4

17. $-2\frac{1}{8} \div \frac{3}{4} \cdot \left(-\frac{6}{7}\right)$

$-2\frac{5}{8} \cdot -\frac{6}{7}$

$2\frac{3}{7}$

18. $4.7 - 1.4 \times (-7.4 + 6.9)$ 19. $3\frac{3}{8} \cdot \left|1\frac{1}{3} - 2\frac{5}{9}\right|$

$4.7 - 1.4 \cdot -0.5$

$4.7 + 0.7$

5.4

$3\frac{3}{8} \cdot -1\frac{2}{9}$

$-4\frac{1}{8}$

20. $2.85 - 6.2 \div 2^2$

$2.85 - 6.2 \div 4$

$2.85 - 1.55$

1.3

21. $\frac{3}{4} + \frac{7}{10} - \frac{1}{8} \div \left(-\frac{1}{2}\right)$

$\frac{3}{4} + \frac{7}{10} + \frac{1}{4}$

$1\frac{7}{10}$

22. $7.8 - 0.5^2 \cdot 12.4$

$0.25 \cdot 12.4$

$7.8 - 3.1$

4.7

23. $0.7^2 \div |9.7 - 6.2|$

$0.49 \div 3.5$

0.14

24. $\left(2\frac{2}{3} \times \frac{5}{8} \div 1\frac{1}{4}\right)^3$

$\left(1\frac{1}{3}\right)^3$

$2\frac{10}{27}$

25. $\left(\frac{8}{5} \div \frac{4}{15}\right)^2 \cdot \left|\frac{1}{3} - \frac{7}{6}\right|$

$(6)^2 \cdot \frac{5}{6}$

$36 \cdot \frac{5}{6}$

30

4
MTR

26. **YOU BE THE TEACHER** Your friend evaluates the expression. Is your friend correct? Explain your reasoning.

yes

$\left(\frac{3}{5}\right)^2 \div \left(-1\frac{4}{5}\right) = \frac{9}{25} \div \left(-1\frac{4}{5}\right)$
 $= \frac{9}{25} \div \left(-\frac{9}{5}\right)$
 $= -\frac{1}{5}$