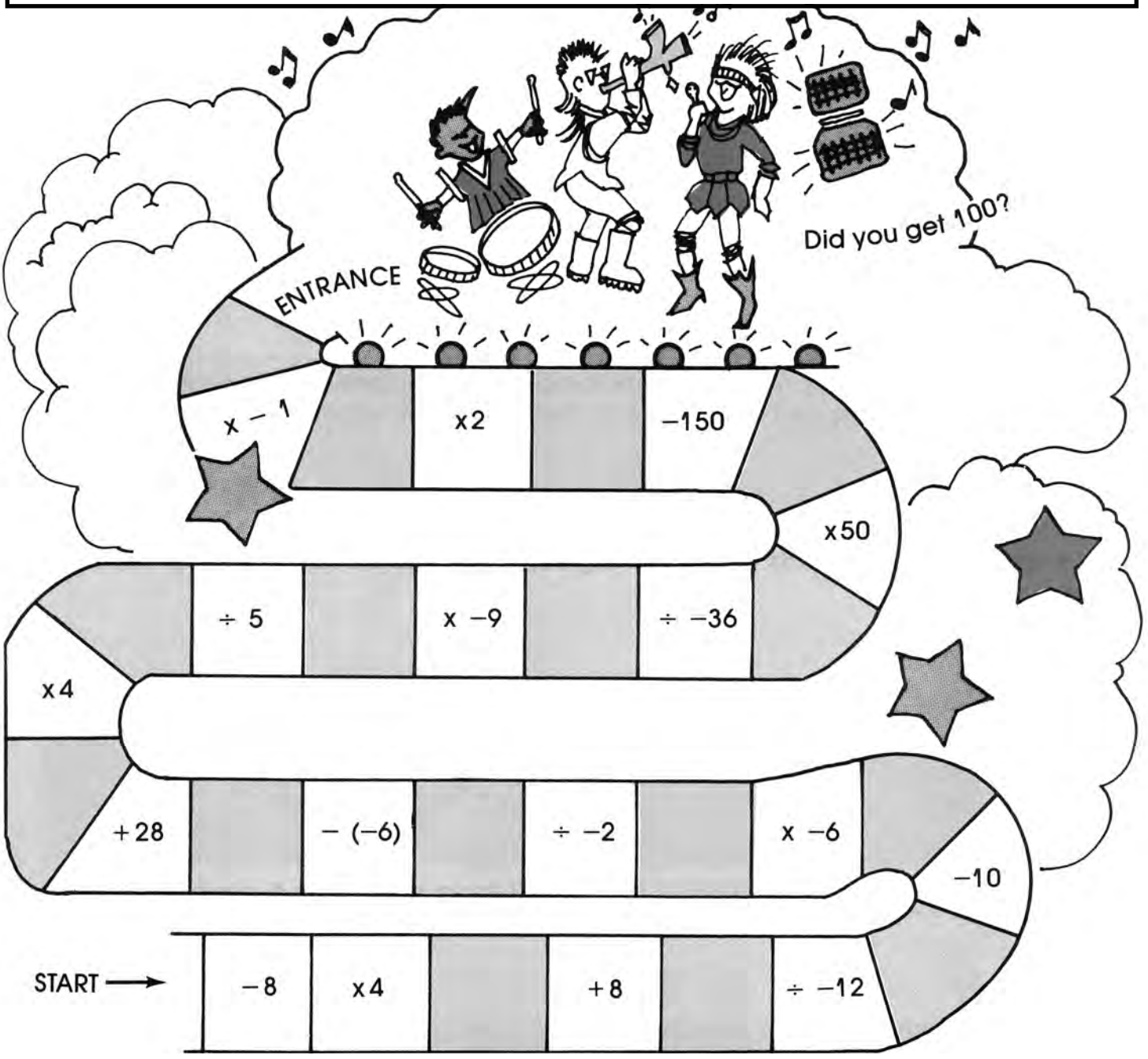
Order of Operations Using Integers

~~6 – 4 x –5 =~~
~~2 x –5 =~~
~~= –10~~

6 – 4 x –5 =
6 – (–20) =
= 26

Remember

Use the rules for integers and order of operations to complete the path to the concert.



Multiplying with Fractions.

Write each product in its simplest form.

EXAMPLE:

$\frac{5}{\cancel{6}_{1}} \times \frac{\cancel{24}^{4}}{1} = 20$

$\frac{2}{3} \times 36 =$ ___	$\frac{5}{8} \times 48 =$ ___	$\frac{2}{5} \times 45 =$ ___	
$\frac{3}{4} \times 48 =$ ___	$\frac{5}{6} \times 54 =$ ___	$\frac{4}{7} \times 49 =$ ___	$\frac{3}{4} \times 72 =$ ___
$\frac{2}{3} \times 18 =$ ___	$\frac{3}{4} \times 24 =$ ___	$\frac{2}{5} \times 60 =$ ___	$\frac{6}{7} \times 56 =$ ___
$\frac{5}{6} \times 42 =$ ___	$\frac{5}{9} \times 54 =$ ___	$\frac{3}{5} \times 35 =$ ___	$\frac{5}{7} \times 63 =$ ___
$\frac{5}{12} \times 36 =$ ___	$\frac{5}{8} \times 56 =$ ___	$\frac{4}{7} \times 35 =$ ___	$\frac{2}{5} \times 25 =$ ___
$\frac{7}{8} \times 96 =$ ___	$\frac{4}{5} \times 90 =$ ___	$\frac{3}{7} \times 28 =$ ___	$\frac{3}{5} \times 40 =$ ___
$\frac{3}{4} \times 32 =$ ___	$\frac{5}{7} \times 84 =$ ___	$\frac{4}{5} \times 50 =$ ___	$\frac{4}{9} \times 63 =$ ___
$\frac{5}{9} \times 36 =$ ___	$\frac{5}{8} \times 56 =$ ___	$\frac{4}{7} \times 35 =$ ___	$\frac{2}{5} \times 25 =$ ___

Maria and John made a pizza to share with friends. The girls ate $\frac{1}{4}$ of the pizza and the boys ate twice as much. What part did the boys eat? ___

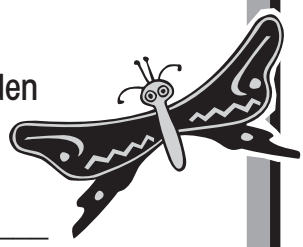
James lives $\frac{5}{8}$ mile from school. How many miles does he ride his bicycle to and from school in a week? _____

Solving Story Problems.

Complete the problems.

1. Phillip and his dad went fishing. They caught 20 fish, but they threw back all but $\frac{1}{4}$ of them. How many fish did they keep? _____

2. Loren, Mary, and Steven collected 15 boxes of toys to give to needy children. They sorted the toys and found that **one-fifth** of the boxes had broken toys. How many boxes of toys need to be fixed? _____



3. Mona and Junelle went to the Botanical Gardens. In the Butterfly Garden they counted 36 butterflies. $\frac{1}{9}$ of the butterflies were Monarchs. How many Monarch butterflies did Mona and Junelle see? _____

4. Joe and Frank built a clubhouse. They invited 28 of their friends to join. At the first meeting only $\frac{1}{7}$ of their friends came. How many came to the meeting? _____

5. The school band had ordered 42 new music stands. After 3 weeks, the school had received only $\frac{1}{7}$ of their order. How many music stands were still to arrive? _____

6. A "Keep The Park Green" Fund had $81.00 in its account. The members spent $\frac{1}{9}$ of the money cleaning up the park. How much was left in the account? _____

7. Chloe decided to sell pencils to make some extra money. She had 100 pencils and she sold them in packs of five. At the end of the day only $\frac{1}{10}$ of the packs were left. How many packs of pencils remained? _____

8. Jeniece and Maria bought a box of 27 cookies. When they opened the box, they saw that $\frac{1}{3}$ of them were broken up. How many cookies were broken? _____

Multiplication of Fractions.

Write each product in its simplest form.

EXAMPLE:

$\frac{\cancel{2}^{1}}{\cancel{3}_{1}} \times \frac{\cancel{3}^{1}}{\cancel{8}_{4}} = \frac{1}{4}$

$\frac{7}{10} \times \frac{5}{6} =$ ____	$\frac{5}{8} \times \frac{1}{4} =$ ____	$\frac{2}{3} \times \frac{1}{9} =$ ____	
$\frac{1}{3} \times \frac{9}{10} =$ ____	$\frac{1}{4} \times \frac{8}{11} =$ ____	$\frac{8}{15} \times \frac{5}{6} =$ ____	$\frac{3}{10} \times \frac{2}{3} =$ ____
$\frac{6}{7} \times \frac{5}{6} =$ ____	$\frac{3}{14} \times \frac{7}{12} =$ ____	$\frac{7}{9} \times \frac{3}{7} =$ ____	$\frac{4}{11} \times \frac{3}{16} =$ ____
$\frac{2}{5} \times \frac{5}{9} =$ ____	$\frac{7}{11} \times \frac{3}{14} =$ ____	$\frac{1}{12} \times \frac{4}{5} =$ ____	$\frac{3}{4} \times \frac{4}{7} =$ ____
$\frac{1}{12} \times \frac{2}{5} =$ ____	$\frac{4}{5} \times \frac{15}{16} =$ ____	$\frac{9}{16} \times \frac{2}{3} =$ ____	$\frac{3}{5} \times \frac{5}{12} =$ ____
$\frac{3}{20} \times \frac{4}{9} =$ ____	$\frac{8}{9} \times \frac{5}{12} =$ ____	$\frac{3}{4} \times \frac{8}{15} =$ ____	$\frac{2}{5} \times \frac{7}{12} =$ ____
$\frac{9}{10} \times \frac{5}{18} =$ ____	$\frac{3}{20} \times \frac{5}{9} =$ ____	$\frac{2}{5} \times \frac{5}{8} =$ ____	$\frac{5}{8} \times \frac{4}{15} =$ ____

$\frac{2}{9} \times \frac{3}{5} \times \frac{5}{8} =$ ____	$\frac{4}{5} \times \frac{5}{6} \times \frac{1}{2} =$ ____	$\frac{3}{7} \times \frac{1}{3} \times \frac{7}{10} =$ ____
$\frac{6}{7} \times \frac{3}{4} \times \frac{1}{3} =$ ____	$\frac{8}{9} \times \frac{6}{11} \times \frac{11}{20} =$ ____	$\frac{9}{10} \times \frac{4}{15} \times \frac{5}{6} =$ ____
$\frac{5}{12} \times \frac{3}{4} \times \frac{2}{5} =$ ____	$\frac{7}{20} \times \frac{3}{5} \times \frac{5}{7} =$ ____	$\frac{1}{3} \times \frac{3}{8} \times \frac{2}{5} =$ ____

Multiplying Mixed Numbers.

Write each product in its simplest form.

EXAMPLE:

$9 \times 1\frac{1}{4} = \frac{9}{1} \times \frac{5}{4} = \frac{45}{4}$ or $11\frac{1}{4}$

$4\frac{3}{8} \times 2 =$ _____	$1\frac{4}{7} \times 14 =$ _____
$2\frac{4}{9} \times 6 =$ _____	$2 \times 7\frac{1}{6} =$ _____
$4 \times 1\frac{1}{7} =$ _____	$8\frac{2}{7} \times 14 =$ _____
$5 \times 4\frac{1}{10} =$ _____	$5\frac{3}{5} \times 10 =$ _____
$3 \times 1\frac{2}{3} =$ _____	$7 \times 1\frac{1}{14} =$ _____
$2\frac{5}{8} \times 4 =$ _____	$4 \times 2\frac{4}{5} =$ _____
$1\frac{5}{9} \times 6 =$ _____	$10 \times 5\frac{2}{5} =$ _____
$8 \times 1\frac{7}{8} =$ _____	$6 \times 3\frac{1}{2} =$ _____
$9\frac{1}{9} \times 3 =$ _____	$3\frac{5}{6} \times 12 =$ _____
$7\frac{1}{5} \times 15 =$ _____	$9 \times 1\frac{1}{4} =$ _____
$6\frac{1}{8} \times 2 =$ _____	