## **Multiplication as Scaling**

In **1-20**, without multiplying, decide which symbol belongs in the box: <, >, or =.

- 1.  $2\frac{1}{2} \times 3\frac{2}{3}$   $3\frac{2}{3}$
- 3.  $\frac{4}{5} \times 4\frac{2}{3}$   $4\frac{2}{3}$
- **5.**  $5\frac{3}{5} \times \frac{2}{2}$   $5\frac{3}{5}$
- 7.  $6\frac{1}{2} \times 7\frac{2}{3}$   $7\frac{2}{3}$
- **9.**  $\frac{3}{5} \times 8\frac{4}{5}$   $8\frac{4}{5}$
- **11.**  $9\frac{2}{7} \times \frac{3}{3}$   $9\frac{2}{7}$
- **13.**  $\frac{1}{3} \times 1\frac{2}{5}$   $1\frac{2}{5}$
- **15.**  $2\frac{3}{5} \times \frac{4}{4}$   $2\frac{3}{5}$
- 17.  $3\frac{1}{3} \times 4\frac{2}{7}$   $4\frac{2}{7}$
- **19.**  $5\frac{1}{2} \times 6\frac{2}{3}$   $5\frac{1}{2}$

- **2.**  $\frac{1}{3} \times 9\frac{2}{5}$   $9\frac{2}{5}$
- **4.**  $1\frac{3}{5} \times \frac{6}{6}$   $1\frac{3}{5}$
- **6.**  $2\frac{1}{3} \times 3\frac{2}{7}$   $3\frac{2}{7}$
- **8.**  $4\frac{1}{2} \times 5\frac{2}{3}$   $5\frac{2}{3}$
- **10.**  $\frac{3}{5} \times 6\frac{4}{5}$  6  $\frac{4}{5}$
- **12.**  $7\frac{2}{7} \times \frac{7}{7}$   $7\frac{2}{7}$
- **14.**  $\frac{1}{3} \times 8\frac{2}{5}$   $8\frac{2}{5}$
- **16.**  $9\frac{3}{5} \times \frac{3}{3}$   $9\frac{3}{5}$
- **18.**  $1\frac{2}{3} \times 2\frac{2}{5}$   $2\frac{2}{5}$
- **20.**  $3\frac{1}{3} \times \frac{4}{4}$   $3\frac{1}{3}$
- **21.** Put the following products in order from least to greatest, without multiplying.

$$5 \times \frac{3}{4}, 4\frac{1}{4} \times \frac{3}{4}, \frac{1}{2} \times \frac{3}{4}, \frac{3}{3} \times \frac{3}{4}$$

**22.** Put the following products in order from greatest to least, without multiplying.

$$6 \times \frac{2}{5}$$
,  $3\frac{2}{3} \times \frac{2}{5}$ ,  $\frac{2}{7} \times \frac{2}{5}$ ,  $\frac{2}{2} \times \frac{2}{5}$ 

**23.** Melissa and her friends are stretching rubber bands for an activity in science class. Melissa stretched her elastic to 10 inches. Juan stretched it  $3\frac{1}{2}$  times as far. Sara stretched it  $\frac{4}{4}$  as far. Marsha stretched it  $\frac{2}{5}$  as far. Put the students in order of how far they stretched their rubber bands from least to greatest.