Multiply the fractions. Express the product in simplest form.

5. \( \frac{1}{2} \times \frac{4}{7} = \frac{2}{7} \)
6. \( \frac{2}{3} \times \frac{9}{10} = \frac{3}{5} \)
7. \( \frac{3}{8} \times \frac{2}{5} = \frac{3}{20} \)
8. \( \frac{11}{3} \times \frac{1}{4} = \frac{11}{12} \)

Multiply the fractions. Express the product as a whole number or a mixed number in simplest form.

9. \( \frac{20}{6} \times \frac{12}{5} = 8 \)
10. \( \frac{16}{9} \times \frac{12}{8} = 2\frac{2}{3} \)

Multiply. Express the product as a whole number or a mixed number in simplest form.

11. \( 5\frac{1}{4} \times 8 = 42 \)
12. \( 14 \times 3\frac{5}{6} = 53\frac{2}{3} \)
13. \( 17 \times 2\frac{5}{8} = 44\frac{5}{8} \)
22. Pat has some T-shirts. $\frac{1}{4}$ of the T-shirts are pink, $\frac{1}{2}$ of the remainder are white, and the rest are purple. What fraction of the T-shirts are purple?

$$\frac{3}{8} \text{ of the T-shirts are purple.}$$

23. Donald works $1\frac{3}{4}$ hours a day at a book store. If he is paid $9 an hour, how much money does he earn in 5 days?

Donald earns $\$78 \frac{3}{4}$ or $\$78.75$

24. Jody has a rectangular piece of fabric $\frac{7}{8}$ yard long and $\frac{4}{5}$ yard wide.

a. What is the area of the piece of fabric?

The fabric is $\frac{7}{10}$ of a square yard.

25. Of the total number of spectators at a circus show, $\frac{1}{4}$ are men. $\frac{2}{5}$ of the remaining spectators are women. There are 132 women at the circus show. How many children are at the circus show?

There are 198 children at the show.