



Patterns with Equivalent Fractions

TAKS Objective 1
TEKS 5.2A, 5.2B

Solve.

1. A nurse works 2 out of every 3 days. Fill in the boxes to continue the pattern of days she must work. $\frac{2}{3}, \frac{4}{6}, \frac{\square}{12}, \frac{16}{\square}$

3. Reggie has soccer practice 3 out of every 5 days. Fill in the boxes to continue the pattern of days that he has soccer practice. $\frac{3}{5}, \frac{6}{10}, \frac{\square}{15}, \frac{12}{\square}$

5. The first fraction in a sequence is $\frac{5}{8}$. The fourth fraction is $\frac{320}{512}$. What are the second and third fractions? Identify the pattern.

2. Of the teams in a tournament, $\frac{16}{32}$ of the teams are in Bracket A. After the first round $\frac{8}{16}$ will be in Bracket A. After the second round $\frac{4}{8}$ of the teams will be in Bracket A. What fraction of the teams will be in Bracket A after the third round and then after the fourth round?

4. On Monday, Joe walked $3\frac{3}{4}$ miles. On Tuesday, Joe walked $3\frac{12}{16}$ miles. On Wednesday, Joe walked $3\frac{48}{64}$ miles. If the pattern continues how many miles did he walk on Thursday?

6. The first fraction in a sequence is $\frac{800}{600}$. The fourth fraction is $\frac{100}{75}$. What are the second and third fractions? Identify the pattern.
