

1. Sally has a piece of cloth. She used  $\frac{1}{4}$  of the cloth to make a pillow cover and another  $\frac{1}{2}$  of the cloth to make a tablecloth.  
What fraction of the cloth was used altogether for the pillow cover and tablecloth?
2. Julie has a piece of cloth. She used  $\frac{5}{10}$  of the cloth to make a pillow cover and another  $\frac{2}{4}$  of the cloth to make a tablecloth.  
What fraction of the tablecloth does she have left?
3. Percy spent  $\frac{5}{16}$  of his money on a food and another  $\frac{5}{8}$  of his money on a drink. What fraction did he have left?
4. John spent  $\frac{1}{3}$  of his money on a food and another  $\frac{3}{6}$  of his money on a drink. What fraction of his money did he spend in total?
5. Julie has a piece of cloth. She used  $\frac{5}{20}$  of the cloth to make a pillow cover and another  $\frac{3}{5}$  of the cloth to make a tablecloth.  
What fraction of the material does she have left?
6. Jenny has a piece of cloth. She used  $\frac{2}{4}$  of the cloth to make a pillow cover and another  $\frac{2}{16}$  of the cloth to make a tablecloth.  
What fraction of the cloth was used altogether for the pillow cover and tablecloth?
7. You go out for a long walk. You walk  $\frac{10}{22}$  mile and then sit down to take a rest. Then you walk  $\frac{5}{11}$  of a mile. How far did you walk altogether?
8. You go out for a long walk. You walk  $\frac{4}{14}$  mile and then sit down to take a rest. Then you walk  $\frac{1}{7}$  of a mile. What fraction of a mile do you have left to walk?
9. School council helps to plan a new playground. The students decide to use  $\frac{2}{5}$  of the playground for a trim trail and  $\frac{3}{10}$  of the playground for football pitches. How much is left for everything else?
10. At lunchtime,  $\frac{4}{21}$  of the children play football while  $\frac{2}{7}$  play basketball. A) What fraction play football and basketball? B) Do more people play basketball and football than do other things in the playground. Explain your answer

#### Challenge reasoning questions

- a) The school raises £1000 at the summer fair.  $\frac{2}{5}$  of the money will go to Gracie's place and  $\frac{2}{10}$  will go to Christian aid. The rest will be spent in school. David says that over half the money is being given to charity. Is he right? Explain your answer.
- b) How much money is spent on the school?
- a) The school raises £3000 at the summer fair.  $\frac{2}{8}$  of the money will go to Gracie's place and  $\frac{3}{16}$  will go to Christian aid. The rest will be spent in school. David says that less than half the money is being given to charity. Is he right? Explain your answer.
- b) Can you change a fraction so that the charities and the school get half of the money each?

## Answers:

1.  $\frac{3}{4}$
2. 0
3.  $\frac{15}{16}$   $\frac{1}{16}$
4.  $\frac{5}{6}$
5.  $\frac{17}{20}$   $\frac{3}{20}$
6.  $\frac{10}{16}$
7.  $\frac{20}{22}$
8.  $\frac{6}{14}$   $\frac{8}{14}$
9.  $\frac{7}{10}$   $\frac{3}{10}$
10.  $\frac{10}{21}$  B Play other things because  $\frac{10}{21}$  is less than  $\frac{11}{21}$

## Challenge questions

1 Yes because  $\frac{6}{10}$  is more than half

Amount spent on school: £400

2 yes because  $\frac{7}{16}$  is less than half