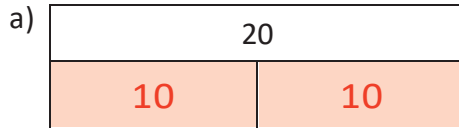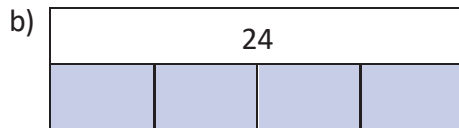# Finding Percentages of Amounts

1. Complete the questions below. Use the bar diagrams to help you.
   The first one has been done for you.
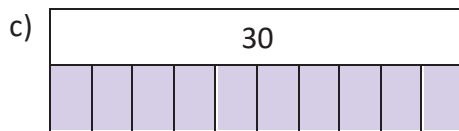
   a)

   | 20 | |
   |---|---|
   | **10** | **10** |

   Divide 20 by 2 to find:

   $\frac{1}{2}$ of 20 = ......**10**...... 50% of 20 = ......**10**......

   b)

   | 24 |
   |---|

   Divide 24 by 4 to find:

   $\frac{1}{4}$ of 24 = .............   25% of 24 = .............

   c)

   | 30 |
   |---|

   Divide 30 by 10 to find:

   $\frac{1}{10}$ of 30 = .............   10% of 30 = .............

2. Use the fractions to help you solve each of these percentage problems.

   $\frac{1}{2}$ of 30 = .............

   50% of 30 = .............

   $\frac{1}{4}$ of 16 = .............

   25% of 16 = .............

   $\frac{1}{10}$ of 60 = .............

   10% of 60 = .............

3. Parminder and Jamie are finding 25% of 16.

   "I am going to halve 16 and then halve it again."

   "I will divide 16 by 4."

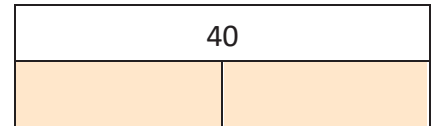   Who has solved the percentage question the correct way? Explain your answer.

   ..............................................................................

   ..............................................................................

   ..............................................................................

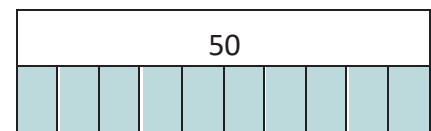   ..............................................................................

# Finding Percentages of Amounts

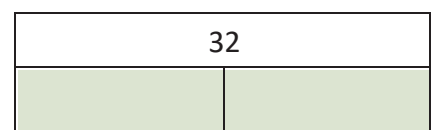4.  Now solve these problems.  Use the bar diagrams to help you.

a)  James has 40 sweets.   50% of them are strawberry flavoured.
How many sweets are strawberry flavoured?

|  |  |
|---|---|
| 40 | |

............................

b)  There are 50 children in Year 5.  10% of them have a pet dragon.
How many children have a pet dragon?

| 50 |
|---|

............................

c)  A fancy hat costs £32.  It is 50% off in a sale.  What is its new price?

|  |  |
|---|---|
| 32 | |

............................

d)  There are 28 pirates on a ship.  25% of the pirates have a parrot.
The rest do not have a parrot.  How many <u>do not</u> have a parrot?

| 28 | | | |
|---|---|---|---|
| | | 28 | |
| 7 | 7 | 7 | 7 |

parrot          a parrot
do not have
a parrot

............................