Functional Skills

Level 1

**Topic:**
Fractions of a Whole
1. There are 21 members in the weight-watching group. 
$\frac{2}{7}$ of the group are men. 
How many men are in the group?

A 3 
B 6 
C 7 
D 14 

2. A dental nurse sees 30 patients in one week. 
She advises $\frac{2}{3}$ of these patients about cleaning their teeth. 
How many patients does she advise?

A 6 
B 10 
C 12 
D 18 

3. Tickets for a concert cost £40 each. 
The organisers donate $\frac{3}{5}$ of the cost of each ticket to charity. 
The amount of money donated from the cost of each ticket to the charity is

A £8 
B £16 
C £24 
D £32 

4. A couple spend 70% of their money on food and entertainment. 
70% written as a fraction is

A $\frac{7}{100}$ 
B $\frac{1}{7}$ 
C $\frac{7}{10}$ 
D $\frac{3}{4}$
5. A store sells floor tiles for £12 a box.
   Today the discount price is \(\frac{1}{3}\) off.

   How much is \(\frac{1}{3}\) of £12?
   
   A £3.00  
   B £3.33  
   C £3.60  
   D £4.00

6. The table shows the number of hot drinks sold in one hour from a stall.

<table>
<thead>
<tr>
<th>Drink</th>
<th>Number of hot drinks sold</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coffee</td>
<td>300</td>
</tr>
<tr>
<td>Chocolate</td>
<td>150</td>
</tr>
<tr>
<td>Tea</td>
<td>450</td>
</tr>
<tr>
<td>Total</td>
<td>900</td>
</tr>
</tbody>
</table>

   What fraction of the hot drinks sold in one hour are coffee?
   
   A \(\frac{1}{6}\)  
   B \(\frac{1}{3}\)  
   C \(\frac{1}{2}\)  
   D \(\frac{2}{3}\)

7. Twenty-four people compete in a long jump trial. Three quarters of them jump more than 3 metres. How many people jump more than 3 metres?

   A 6  
   B 8  
   C 12  
   D 18
8. An electrical store has 24 different types of refrigerator. 
   \( \frac{3}{4} \) of the types of refrigerator have reduced prices. 
   How many types of refrigerator have reduced prices?

A 6 
B 16 
C 18 
D 32

9. In 2001 the census showed that 30% of the population lived in rented housing. 
   30% is the same as

A \( \frac{1}{3} \) 
B \( \frac{1}{30} \) 
C \( \frac{3}{10} \) 
D \( \frac{3}{100} \)

10. One week he bakes 1500 loaves. 
    \( \frac{3}{5} \) of the loaves are white. 
    How many loaves are white?

A 300 
B 500 
C 900 
D 1200
11 On a particular day, 48 customers purchased items in the fish section of a pet store. \( \frac{1}{6} \) of these customers are new to fish keeping.

What is \( \frac{1}{6} \) of 48?

A  6  
B  7  
C  8  
D  16

12 A company buys land to build a new supermarket. The plot of land has a total area of 24000m². The developer uses \( \frac{1}{3} \) of the area for parking space.

What is the area of the parking space?

A  6000m²  
B  7200m²  
C  8000m²  
D  12000m²

13 A machine operator cuts 25% off the length of a metal bar. As a fraction, 25% is

A  \( \frac{1}{25} \)  
B  \( \frac{1}{5} \)  
C  \( \frac{1}{4} \)  
D  \( \frac{2}{5} \)
14 A man's usual daily food contains 150 grams of fat.
   His doctor advises him to reduce his fat intake by \( \frac{2}{5} \).
   What is \( \frac{2}{5} \) of 150 grams?
A  30g
B  60g
C  75g
D  90g

15 A woman sees a microwave oven in a sale.

ALL Microwave Ovens
SAVE \( \frac{1}{3} \) OFF
marked price

\( \frac{1}{3} \) of £39.99 is
A  £11.99
B  £13.33
C  £13.99
D  £26.66

16 A full can of paint holds 750 millilitres.
   There is a part-used can of paint.
   The can is \( \frac{2}{3} \) full.
   How much paint is in the can?
A  230ml
B  250ml
C  500ml
D  666ml