1) a) 18 is $10 \%$ so to find $100 \% \times 10$. $18 \times 10=180$ so the total $=180$. If we know $10 \%$ is 18 , we can see that 10 lots of this will make the whole number.
b) 26 is $20 \%$ so we can halve this to find $10 \%$.
$26 \div 2=13$ to find $100 \% \times 10$ so $13 \times 10=130$, which is the total amount. If we know $10 \%$ is 13 , we can see that 10 lots of this will make the whole number.
2) a) 150
b) 400
c) 2000
d) 3500
3) $£ 60$ altogether. Each bag has $£ 12$ in it.
4) Jack is incorrect.

Bar model B is $75 \%$ of bar model $A$.
Bar model $B$ has a total value of $45 \times 5=225$.
$25 \%$ of bar model $A$ is $75(225 \div 3)$
$4 \times 75=300(4 \times 25 \%=100 \%)$
Total of $A=300$
Total of $B=225$
2) a) $25 \%$ of $60=60 \%$ of 25

True because the answer to both calculations is 15 .
b) $60 \%$ of $10=10 \%$ of 60

True because the answer to both calculations is 6 .
c) $60 \%$ of $120=50 \%$ of 60

False because the answer to the first calculation is 72 but $50 \%$ of 60 is 30 .

1) Field A

The whole size of the field is $90 \mathrm{~m}^{2}$.
$55 \%+15 \%$ of the field measures $70 \%=63 \mathrm{~m}^{2}$.


Field B
The whole size of the field is $2800 \mathrm{~m}^{2}\left(5 \%=140 \mathrm{~m}^{2} \times 20=2800^{2}\right)$.
$55 \%+15 \%$ of the field measures $70 \%=1960 \mathrm{~m}^{2}$.
2)

| Crop | Area covered by crop <br> in $480 \mathrm{~m}^{2}$ field | Area covered by crop <br> in $450 \mathrm{~m}^{2}$ field |
| :---: | :---: | :---: |
| Potatoes: $25 \%$ | $120 \mathrm{~m}^{2}$ | $112.5 \mathrm{~m}^{2}$ |
| Onions: $5 \%$ | $24 \mathrm{~m}^{2}$ | $22.5 \mathrm{~m}^{2}$ |
| Cauliflower: $40 \%$ | $192 \mathrm{~m}^{2}$ | $180 \mathrm{~m}^{2}$ |
| Carrots: $30 \%$ | $144 \mathrm{~m}^{2}$ | $135 \mathrm{~m}^{2}$ |

