1) **a)** 4

b) $\frac{1}{6}$ = 4 $\frac{2}{6}$ = 8 $\frac{3}{6}$ = 12 $\frac{4}{6}$ = 16 6 = 20 $\frac{6}{6}$ or 1 whole = 24

2) Model should represent 5 mice in each cage.

$\frac{1}{8}$ = 5 $\frac{2}{8}$ = 10 $\frac{4}{8}$ = 20 $\frac{5}{8}$ = 25 $\frac{7}{8}$ = 35 $\frac{8}{8}$ = 40

3) Children's working out may show a bar model containing 6 boxes with 4 guinea pigs in each or use $\frac{1}{6}$ = 4 to work out the whole must be 24 guinea pigs.

1) Harjot has mixed up the denominator and the numerator. He should have said, 'First I need to divide the number of goldfish by the denominator (10) and then multiply this by the numerator (7).'

Harjot is right.
Angel fish = 15
Guppies = $\frac{2}{5}$ of 40 = 40 ÷ 5 = 8 × 2 = 16

Zebra fish = 40 – (15 + 16) = 9
Children may use different methods, including pictorial representations to work out the answer.

2) Patsy is not right.
$\frac{5}{8}$ of 56g = 56 ÷ 8 = 7 × 5 = 35g
Children may use different methods, including pictorial representations to work out the answer.

1) Various possible answers. There must be 9 squares in total.

2) 3 birds were left. This is $\frac{3}{12}$ or $\frac{1}{4}$ of the original amount of birds.

3) The total number of animals need to be a multiple of 4 between 21 and 39. These are 24, 28, 32, and 36.
After $\frac{3}{4}$ has been calculated, the remainder needs to be a multiple of 3 in order to calculate $\frac{1}{3}$. The multiples of 4 that this works for are 24 and 36.

The possible answers are:
18 rabbits, 2 mice and 4 guinea pigs
27 rabbits, 3 mice and 9 guinea pigs