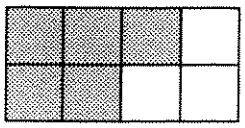
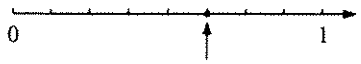
YEAR 7 TEST 5A

1 a



b



c $\frac{5}{8}$

2 $\dfrac{20 \text{ min}}{1 \text{ hour}}$

$= \dfrac{20 \text{ mins}}{60 \text{ mins}}$ {need to be same units}

$= \frac{1}{3}$ {simplest form}

3 Total number $= 15 + 20 + 10 + 5$
$= 50$

a Fraction which is 'netballs'

$= \frac{20}{50}$

$= \frac{2}{5}$ netball

b Fraction which is not 'volleyballs'

$= \frac{45}{50}$

$= \frac{9}{10}$

4 a $\frac{1}{8}$ of 48

$= 48 \div 8$

$= 6$

b $\frac{1}{4}$ of 1 litre

$= 1000$ mL $\div 4$

$= 250$ millilitres

5 $\frac{1}{7}$ of 63

$= 63 \div 7$

$= 9$

$\therefore$ $\frac{2}{7}$ of 63

$= 2 \times 9$

$= 18$

6 $\frac{4}{5}$ is \$16

$\therefore$ $\frac{1}{5}$ is \$4 {divide by 4}

$\therefore$ $\frac{5}{5}$ is \$4 $\times$ 5 = \$20

i.e., \$20 pocket money

7 a $\frac{18}{6}$

$= 18 \div 6$

$= 3$

b $\frac{18}{5}$

$= \frac{15+3}{5}$

$= \frac{15}{5} + \frac{3}{5}$

$= 3\frac{3}{5}$

8 $3\frac{3}{8}$

$= 3 + \frac{3}{8}$

$= \frac{24}{8} + \frac{3}{8}$

$= \frac{27}{8}$

9 a $\dfrac{5}{9} \overset{\times 3}{=} \dfrac{\square}{27}$ $\therefore$ $\square = 15$

b $\dfrac{54}{66} \overset{\div 6}{=} \dfrac{\square}{11}$ $\therefore$ $\square = 9$

10 a $\frac{1\times5}{3\times5} = \frac{5}{15}$ $\quad \frac{1\times3}{5\times3} = \frac{3}{15}$

$\therefore$ $\frac{1}{3} > \frac{1}{5}$

b $\frac{3\times9}{4\times9} = \frac{27}{36}$ $\quad \frac{7\times4}{9\times4} = \frac{28}{36}$

$\frac{28}{36} > \frac{27}{36}$ $\quad \therefore$ $\frac{7}{9} > \frac{3}{4}$

11 a $\frac{1}{10}, \frac{1}{9}, \frac{1}{6}, \frac{1}{4}, \frac{1}{3}, \frac{1}{2}$

b $\frac{2\times4}{3\times4} = \frac{8}{12}$, $\quad \frac{3\times3}{4\times3} = \frac{9}{12}$,

$\frac{5\times2}{6\times2} = \frac{10}{12}$, $\quad \frac{1\times6}{2\times6} = \frac{6}{12}$

$\therefore$ $\frac{1}{2}$, $\frac{2}{3}$, $\frac{3}{4}$, $\frac{5}{6}$

12 a $\frac{6}{12}$ **b** $\frac{12}{20}$ **c** $\frac{24}{27}$

d $\frac{3}{4}$ **e** $\frac{3}{4}$ **f** $\frac{5}{1}$