## Fraction Strategies: Hot Shots 2

We are learning how to work out the percentages of amounts.

Problem: In a game of netball, Irene gets 45 out of 50 of her shots in. Sharelle gets 17 out of her 20 shots in. Who is the better shot?

Irene's fraction is $\frac{45}{50}$. Doubling 45 calculates the shooting percentage, as $\frac{45}{50}$ is equivalent to $\frac{90}{100}$.
On a double number line this is represented as:


Calculate Sharelle's shooting percentage and represent it on a double number line.

## Exercise 1

Use the double number line to change the following fractions to percentages.

1) $\frac{1}{2}$
(2) $\frac{1}{4}$
(3) $\frac{3}{4}$
(4) $\frac{8}{16}$
2) $\frac{10}{40}$
(6) $\frac{18}{24}$
(7) $\frac{35}{40}$
(8) $\frac{12}{20}$
3) $\frac{8}{24}$
(10) $\frac{18}{27}$
(11) $\frac{12}{36}$
(12) $\frac{15}{40}$

## Exercise 2: Word Problems

1) Tawera scored $\frac{36}{45}$ in his first science test and $\frac{50}{60}$ in his second science test. Change both test results to a percentage to find out which is the best one?

## Independent Activity:

Use brochures from local retailers.
One shop has a "25\% off" sale, another has a "one-third off" sale, and a third has a "40\% off" Sale. Give the students an arbitrary budget to spend at the three shops for them to decide which is the cheapest.

Hot Shots: Answers

## Exercise 1

1) $50 \%$
(2) $25 \%$
(3) $75 \%$
(4) $50 \%$
(5) $25 \%$
2) $75 \%$
(7) $87 \frac{1}{2} \%$
(8) $60 \%$
(9) $33 \frac{1}{3} \%$
(10) $66 \frac{2}{3} \%$
3) $33 \frac{1}{3} \%$
(12) $37 \frac{1}{2} \%$

Exercise 2

1) First test $80 \%$, Second test $83 \frac{1}{3} \%$
