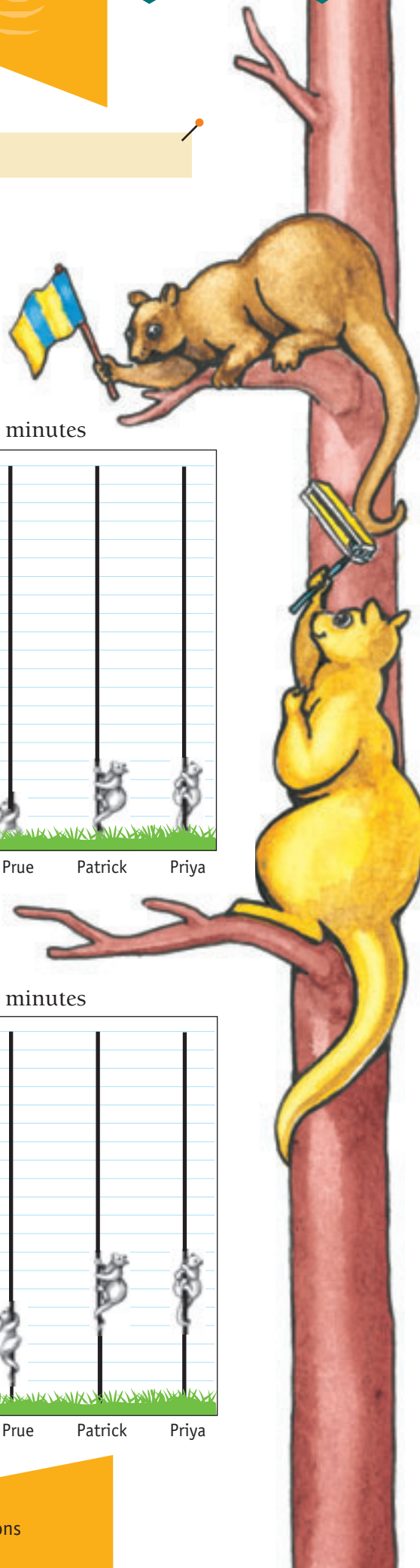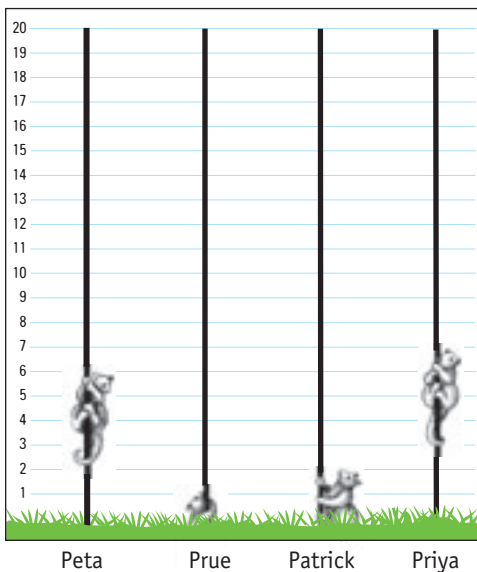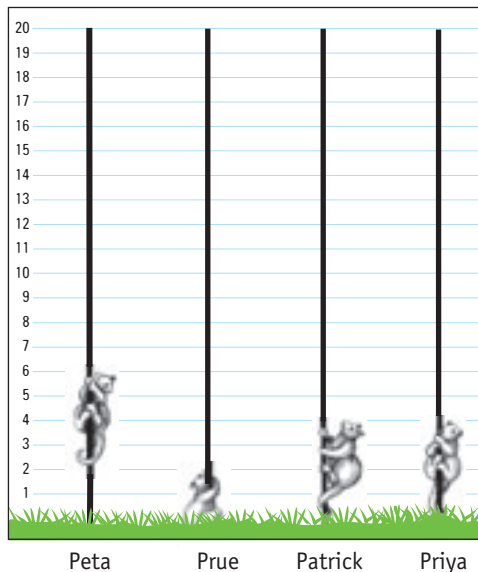# Possum Poles

You need ☑ graph paper

Activity

Four possums reached the final of the 20 metre slippery-pole climbing competition at the Animal Olympics.
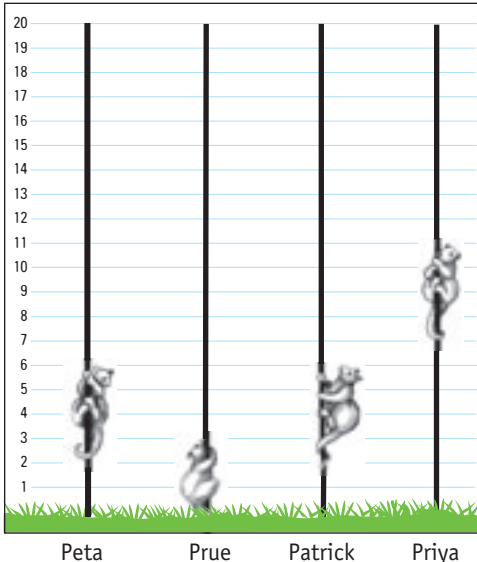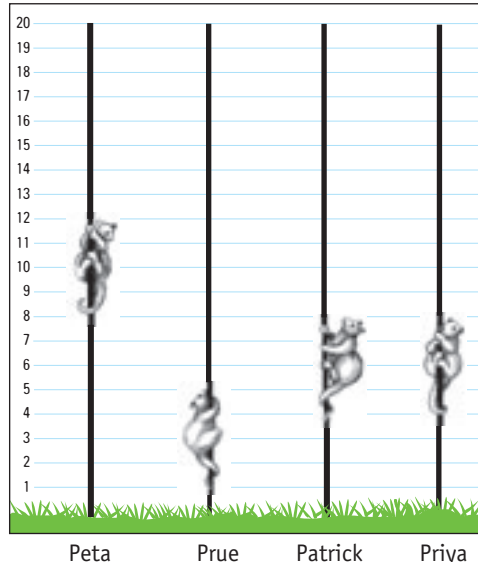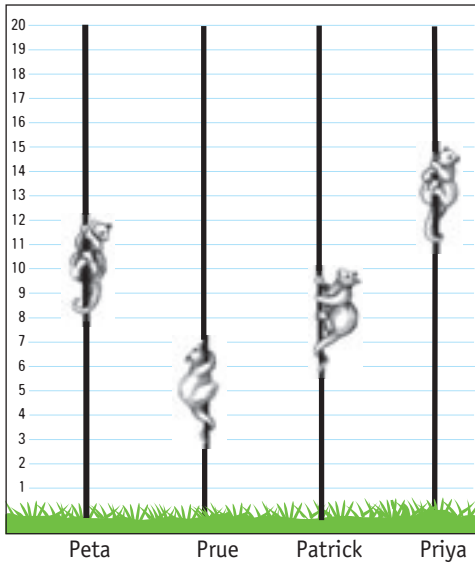Here are some pictures of the race:

1 minute

Peta　Prue　Patrick　Priya

2 minutes

Peta　Prue　Patrick　Priya

3 minutes

Peta　Prue　Patrick　Priya

4 minutes

Peta　Prue　Patrick　Priya

Using rules and graphs to model practical situations

5 minutes

Peta   Prue   Patrick   Priya

7 minutes

Peta   Prue   Patrick   Priya

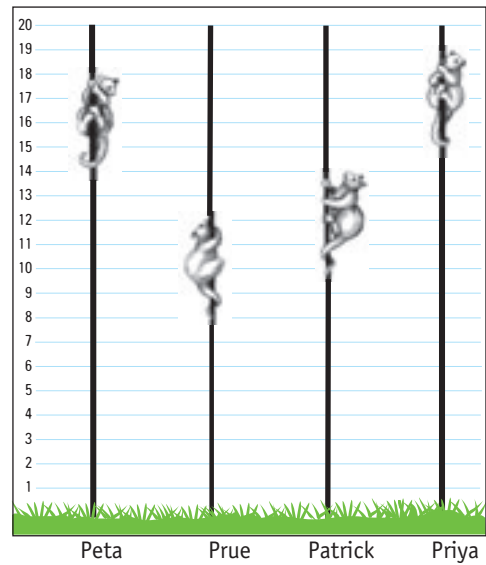**1.** **a.** Draw a separate graph for each possum, with the height travelled up the pole shown on the vertical axis and the time of the picture (minutes) on the horizontal axis.
Mark on the graphs where the possums' heads are at each minute up to 5 minutes.

b. Now draw on your graphs where you think each possum will be at 6 minutes.

c. Mark on your graphs how far up the pole each possum is at 7 minutes.

d. Use your graphs to help you describe each possum's climbing pattern.

2. **a.** Continue to plot each possum's climb on the graph for that possum until they have reached the 20 metre mark.

b. Who reached the 20 metre mark first?

c. How many minutes did the winner take?