Day 1

1 Calculate :

(1) $\frac{3}{8}+\frac{3}{7}+\frac{5}{8}+\frac{4}{7}=$ _____ .

(2) $\frac{6}{11}+\frac{7}{11}-\frac{3}{11}=$ _____ .

2 Alex walks to school at a constant speed of 20 m/min.

(1) How far can he walk in 3 min?

(2) How long does it take him to walk 100 m?

(3) If Alex's home is 200 m away from school and now it takes Alex 4 min to walk home from school, what is Alex's speed now?

3 It takes Ryan 2 h to bike to school from home at a constant speed of 15 km/h. If he starts biking home from school at a constant speed of 10 km/h, how long does it take him to arrive home?

4 Emily's home is 480 m away from school. She goes to school on foot. Usually, she departs from home at $7:40$ and arrives at school at $8:00$. Today, she leaves home as usual. If she departs at the same time as usual and walks 16 m/min faster than usual, when will she arrive at school?

5 Sam practices for a 1500–meter race to prepare for Think Olympics. If his running speed is 300 meters per minute, he can exactly finish the full distance in his scheduled time. However, his current running speed is 250 meters per minute. Therefore, within the scheduled time, he can run _____ meters.