

Interpret slope and intercept in a real context

NAME	DATE	SCORE / 10
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- 1** A taxi ride of x kilometres costs y dollars, where $y = 2x + 8$. What does the 8 in the equation tell you?
- ☐ The cost goes up \$2 for each kilometre
 ☐ The cost is \$8 before the taxi goes any kilometres
 ☐ The cost of a ride of 8 kilometres

- 2** A plant is y cm tall after x weeks, where $y = 4x + 11$. What does the 11 in the equation tell you?
- ☐ The plant was 11 cm tall at the start
 ☐ The plant's height after 11 weeks
 ☐ The plant grows 4 cm each week

- 3** A taxi ride of x kilometres costs y dollars, where $y = 3x + 8$. What does the 3 in the equation tell you?
- ☐ The taxi goes 3 kilometres for each dollar
 ☐ The cost goes up \$3 for each kilometre
 ☐ The cost is \$8 before the taxi goes any kilometres

- 4** A tank has y litres of water in it x minutes after it starts to drain, where $y = 90 - 5x$. What does the 90 in the equation tell you?
- ☐ The tank had 90 litres in it before it started to drain
 ☐ The water goes down 5 litres each minute
 ☐ The litres in the tank after 90 minutes

- 5** Ivy has y dollars after x weeks, where $y = 10x + 30$. What does the 30 in the equation tell you?
- ☐ Ivy saves \$10 each week
 ☐ The dollars Ivy has after 30 weeks
 ☐ Ivy had \$30 at the start

6

A plant is y cm tall after x weeks, where $y = 4x + 9$. What does the 4 in the equation tell you?

- ☐ The plant was 9 cm tall at the start ☐ The plant takes 4 weeks to grow 1 cm
☐ The plant grows 4 cm each week
-

7

A tank has y litres of water in it x minutes after it starts to drain, where $y = 70 - 3x$. What does the 3 in the equation tell you?

- ☐ The water goes down 3 litres each minute
☐ The tank had 70 litres in it before it started to drain ☐ It takes 3 minutes for 1 litre to drain
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8

Ivy has y dollars after x weeks, where $y = 10x + 25$. What does the 10 in the equation tell you?

- ☐ Ivy saves \$10 each week ☐ Ivy saves \$1 every 10 weeks ☐ Ivy had \$25 at the start
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9

Ana has y dollars after x weeks, where $y = 20x + 25$. What does the 20 in the equation tell you?

- ☐ Ana saves \$1 every 20 weeks ☐ Ana had \$25 at the start ☐ Ana saves \$20 each week
-

10

Ben has y dollars after x weeks, where $y = 20x + 55$. What does the 55 in the equation tell you?

- ☐ The dollars Ben has after 55 weeks ☐ Ben saves \$20 each week
☐ Ben had \$55 at the start

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1 The cost is \$8 before the taxi goes any kilometres

3 The cost goes up \$3 for each kilometre

5 Ivy had \$30 at the start

7 The water goes down 3 litres each minute

9 Ana saves \$20 each week

2 The plant was 11 cm tall at the start

4 The tank had 90 litres in it before it started to drain

6 The plant grows 4 cm each week

8 Ivy saves \$10 each week

10 Ben had \$55 at the start