

Interpret slope and intercept in a real context

NAME	DATE	SCORE / 10
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1 Ana has y dollars after x weeks, where $y = 10x + 65$. What does the 10 in the equation tell you?

- ☐ Ana saves \$1 every 10 weeks
 ☐ Ana saves \$10 each week
 ☐ Ana had \$65 at the start

2 A tank has y litres of water in it x minutes after it starts to drain, where $y = 40 - 5x$. What does the 5 in the equation tell you?

- ☐ The water goes down 5 litres each minute
☐ The tank had 40 litres in it before it started to drain
 ☐ It takes 5 minutes for 1 litre to drain

3 A plant is y cm tall after x weeks, where $y = 5x + 11$. What does the 11 in the equation tell you?

- ☐ The plant grows 5 cm each week
 ☐ The plant was 11 cm tall at the start
☐ The plant's height after 11 weeks

4 Ivy has y dollars after x weeks, where $y = 20x + 65$. What does the 65 in the equation tell you?

- ☐ Ivy saves \$20 each week
 ☐ The dollars Ivy has after 65 weeks
 ☐ Ivy had \$65 at the start

5 Leo has y dollars after x weeks, where $y = 15x + 30$. What does the 30 in the equation tell you?

- ☐ Leo saves \$15 each week
 ☐ Leo had \$30 at the start
☐ The dollars Leo has after 30 weeks

6 A taxi ride of x kilometres costs y dollars, where $y = 2x + 7$. What does the 7 in the equation tell you?

- ☐ The cost is \$7 before the taxi goes any kilometres
☐ The cost goes up \$2 for each kilometre ☐ The cost of a ride of 7 kilometres
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7 A taxi ride of x kilometres costs y dollars, where $y = 3x + 7$. What does the 3 in the equation tell you?

- ☐ The cost is \$7 before the taxi goes any kilometres
☐ The cost goes up \$3 for each kilometre ☐ The taxi goes 3 kilometres for each dollar
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8 Ivy has y dollars after x weeks, where $y = 5x + 50$. What does the 5 in the equation tell you?

- ☐ Ivy saves \$1 every 5 weeks ☐ Ivy saves \$5 each week ☐ Ivy had \$50 at the start
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9 A plant is y cm tall after x weeks, where $y = 5x + 11$. What does the 5 in the equation tell you?

- ☐ The plant takes 5 weeks to grow 1 cm ☐ The plant was 11 cm tall at the start
☐ The plant grows 5 cm each week
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10 A tank has y litres of water in it x minutes after it starts to drain, where $y = 110 - 4x$. What does the 110 in the equation tell you?

- ☐ The water goes down 4 litres each minute ☐ The litres in the tank after 110 minutes
☐ The tank had 110 litres in it before it started to drain

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1 Ana saves \$10 each week

2 The water goes down 5 litres each minute

3 The plant was 11 cm tall at the start

4 Ivy had \$65 at the start

5 Leo had \$30 at the start

6 The cost is \$7 before the taxi goes any kilometres

7 The cost goes up \$3 for each kilometre

8 Ivy saves \$5 each week

9 The plant grows 5 cm each week

10 The tank had 110 litres in it before it started to drain