

Chapter 6 BLM Answers

BLM 6-2 Chapter 6 Warm-Up

Section 6.1

1. $\frac{1}{3}$
2. 12
3. 9%
4. 0.13
5. 48%

Section 6.2

1. rise: 1; run: 2
2. $\frac{7}{8}$
3. $\frac{2}{1}$
4. 5
5. $\frac{2}{5}$

Section 6.3

1. $\frac{9}{10} = 0.9$
2. 42°
3. $\frac{1}{2}$
4. 27°
5. 4°

BLM 6-4 Section 6.1 Extra Practice

1. Line A: rise 3, run 2; Line B: rise 2, run 3
2. $AB = \frac{4}{3}$; $CD = \frac{1}{3}$
3. $\frac{1}{4}$
4. 16 cm
5. $\frac{2}{5}$
6. a) 3 b) 12 c) 70 d) 5
7. a) $\frac{1}{6}$ b) $\frac{1}{7}$ c) $\frac{1}{30}$ d) 2
8. $\frac{1}{4}$
9. a) $\frac{1}{2}$ b) 180 cm
10. a) $\frac{1}{10}$ b) 0.1 c) 10%
11. Eastern Trail
12. a) $\frac{4}{5}$ b) $\frac{4}{5}$

BLM 6-7 Section 6.2 Extra Practice

1. a) $\frac{13}{9}$ b) $\frac{3.6}{18}$ c) $\frac{25}{24}$
2. a) 55° b) 11° c) 46°
3. a) 1 b) 0 c) undefined d) $\frac{1}{3}$
4. a) 45° b) 0° c) 90° d) 18°
5. a) B b) C; too steep
6. 4°
7. a) 20 ft b) 3°
8. a) 14% grade b) $\frac{7}{50}$
9. a) 6° b) 2° c) 5° d) 14°
10. 6.7%
11. Example:

Road	Rise	Run	Slope as a Fraction	Slope as a Decimal	Percent Grade
Atlantic Avenue	200	1000	$\frac{1}{5}$	0.2	20%
Bay Bypass	6	50	$\frac{3}{25}$	0.12	12%
City Crescent	23	80	$\frac{23}{80}$	0.2875	28.75%
Downtown Drive	2	25	$\frac{2}{25}$	0.08	8%
Harbour Highway	9	100	$\frac{9}{100}$	0.09	9%
Rural Road	1	5	$\frac{1}{5}$	0.2	20%
Suburb Speedway	1	50	$\frac{1}{50}$	0.02	2%
Tickle Trail	3	40	$\frac{3}{40}$	0.075	7.5%

12. a) Atlantic Avenue, Bay Bypass, Downtown Drive, Harbour Highway, Rural Road, Tickle Trail
- b) City Crescent

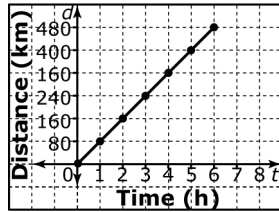
BLM 6-8 Section 6.3 Extra Practice

1. a) AB: rise 4, run 1; CD: rise 0, run 4; EF: rise 4, run 0; GH: rise 1, run 2; IJ: rise 3, run 4
- b) $AB = 4$; $CD = 0$; $EF = \text{undefined}$; $GH = \frac{1}{3}$; $IJ = \frac{3}{4}$
2. a) $\frac{3}{2}$ b) $\frac{4}{7}$ c) 0 d) $\frac{3}{1}$



3. a) 1 b) 3 c) $\frac{3}{1}$

4. a)



b) $\frac{80}{1}$ c) slope = average speed

5. a)

Time Worked (h)	Amount Earned (\$)	Rate of Change
0	0	
1	13	$13 - 0 = 13$
2	26	$26 - 13 = 13$
3	39	$39 - 26 = 13$
4	42	$42 - 39 = 13$
5	65	$65 - 42 = 13$

b) $\frac{13}{1}$; \$13/h c) $\frac{15}{1}$

d) Both start at 0 h and \$0.

e) different rates of change

6. $\frac{5}{3}$

7. Table A: constant rate of change of 2;

Table B: not constant

8. \$12/h

9. a) every 10 min

b) $\frac{1}{10}$; $\frac{1}{5}$; $\frac{1}{10}$; $\frac{1}{5}$; $\frac{1}{10}$; 0

c) 1 km/10 min; 1 km/5 min;
1 km/10 min; 1 km/5 min; 1 km/10 min;
0 km/10 min

BLM 6-9 Chapter 6 Test

1. C

2. C

3. A

4. 10

5. 104 ft

6. greater than

7. 27°

8. a) Yes. The earnings changed at a constant rate. b) 33.3

c) Emily's pay increases 33.3¢ per month.

