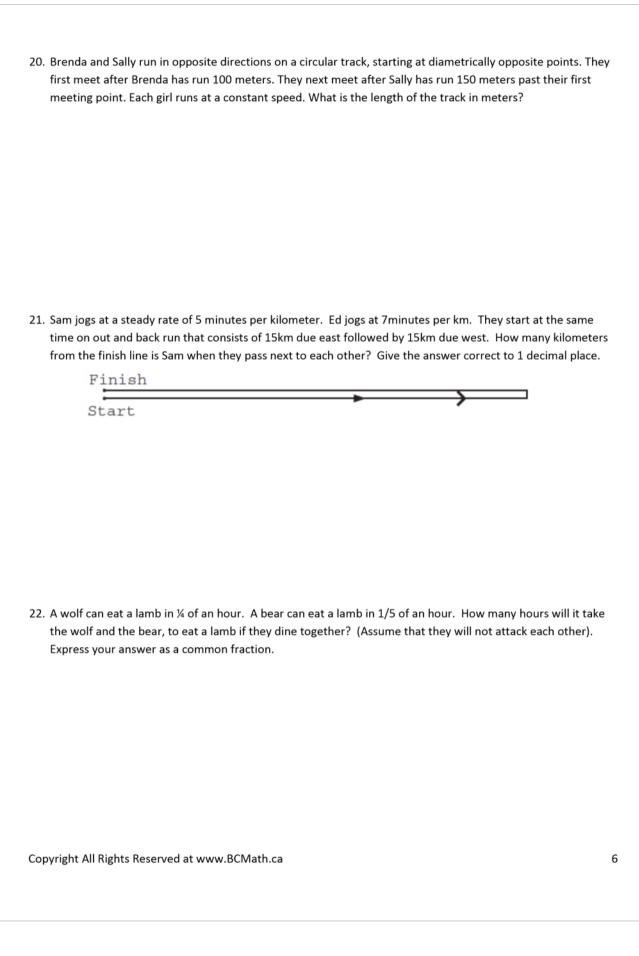
Name:			Date:	
1) 210 points	2) A: \$4.18/L, B:\$3.5	5/L; B is the better buy	3) A: 50¢/100g, B: 44	4¢/100g; B is better
4) 2L reduce by 5	57¢ and C reduce by 33¢	5) 22km/h	6) 100km/h	7) 6/5 min
3) z/36 days	9) 45.5 hour	10) 2min and 24sec	11) 1hr and 12min	12) 12 min
13) 165 km	14) 12km/h	15) Ken: \$80, Mark: \$8	0, Both: \$80	16) 6 hours
17) 10/9	18) 5400m	19) 15km	20) 350m	21) 12.5km
2)20/3	23)144min	24)A) B(J+1)/(B+J)	25) d) 10	
			[18x3x5]/(7x4)	
	st 6 games of the football ints would he score in 15		points. If he continued	d scoring at this rate
	of liquid detergent is sold etergent. Which is the be		mL, and \$3.55 for 1 L.	Find the unit price t
			mL, and \$3.55 for 1 L.	Find the unit price t
size of de		tter buy? 75. A 525g box of the sa	me cereal costs \$2.29.	

 Two girls, 60km apart, start cycling toward each other at the same time. One girl cycles at 18km/h. How fast must the other girl cycle if they are to meet in 1.5h? Car A and car B leave Vancouver on the same road 1h apart. Car A leaves first and travels at a steady 80km/h. How fast must car B travel to overtake car A in 4h? Machine X makes 200 boxes in 3 min and machine Y makes 200 boxes in 2min. With both machines working, how long will it take to make 200boxes? Copyright All Rights Reserved at www.BCMath.ca 	4.	Milk is sold in 4L bags, 2L, and 1L cartons. The milk is priced at \$3.49, \$2.31, and \$1.20, respectively. By how much would the cost of each carton have to be reduced so that its unit price was equal to that of the 4L bags?
 80km/h. How fast must car B travel to overtake car A in 4h? 7. Machine X makes 200 boxes in 3 min and machine Y makes 200 boxes in 2min. With both machines working, how long will it take to make 200boxes? 	5.	
how long will it take to make 200boxes?	6.	
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8.	A study shows that an office staff of "x" people will consume "y" cups of coffee over a period of "z" days. At this rate, how long would it take a staff of "3x" people to consume $\frac{y}{12}$ cups of coffee?
9.	A worker is paid $\$8.60/h$ for a 40h week and time and a half for overtime. How many hours are worked to earn $\$414.95$ in one week?
10.	Jason can fill a water tank in 4 min using a large hose. He takes 6 min using a smaller hose. How long will he
	take if he uses both hoses?
11.	Andrew can deliver 500 handbills in 2h. Amos can deliver the same number in 3h. How long will they take to deliver 500 handbills if they work together?
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12.	Mario can take inventory at the store in 30min. His partner, Carmen, can take inventory in 20min. If they work together, how long will the inventory take?	
13.	Driving between two towns at 110 km/h instead of 100 km/h saves 9 minutes . What is the distance in kilometres between the two towns?	е
14.	Katie leaves school at the same time every day. If she cycles at 20 km/h, she arrives home at 4:30 in	
	the afternoon. If she cycles at 10 km/h, she arrives home at 5:15 in the afternoon. At what speed, in km/h, must she travel to arrive home at 5:00 in the afternoon?	
15.	Ken and Mark are office cleaners. Ken earns \$10/h and takes 8hours to clean an office. Mark earn \$8/h and takes 10h to clean it. How long will it take Ken and Mark to clean the office together? What is the cost of cleaning the office using only Ken? Only Mark? Ken and Mark together?	l
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16. Mike takes 3hours to complete a task. Mike and Sam together takes 2hours to complete the same task. How long will it take Sam to complete the task alone?	W
17. The ratio of x to y is ¾, and the ratio of x to z is 5/6. What is the ratio of y to z? Express your answer as a common fraction.	
18. A rectangular field is 50% longer than it is wide. The perimeter of the field is 300meters. What is the area of the field, in square meters.	f
19. Beth is one-fifth of the way through her cross-country race. After she runs a further three-quarters of a km, she will be one-quarter of the way through the race. Over how many km is the whole race?	
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- 23. Two candles of the same height are lit at the same time and both burn at a constant rate. The first is consumed in four hours, the second in three hours. What is the number of minutes after being lit will the height of the first candle be twice of the second candle?
- (b) 48
- (d) 120
- (e) 144

- 24. Bill and Jill are hired to paint a line on a road. If Bill works by himself, he could paint the line in "B" hours. If Jill works by herself, she could paint the line in "J" hours. Bill starts painting the line from one end, and Jill begins painting the line from the other end on hour later. They both work until the line is painted. Which of the following is an expression for the number of hours that Bill works?
- (A) $\frac{B(J+1)}{B+J}$ (B) J+1 (C) $\frac{BJ}{B+J}+1$ (D) $\frac{B+J-1}{2}$ (E) $\frac{B(J-1)}{B+J}$

- 25. Three painters can paint 4 houses in 5 days. To the nearest whole number of days, how long would it take 7 painters to paint 18 houses if all the work was done at the same rate all the time?
 - (a) 3
- (b) 4
- (c) 7
- (d) 10 (e) 18