

Grade 7A Term 1 Quiz 1 Revision (Lessons 1-1 to 1-3)

- 1) A truck driver drove 48 miles in 45 minutes. At this rate, how many miles can the truck driver drive in one hour?

_____ miles in one hour

- 2) A small airplane flew 104 miles in 50 minutes. At this rate, how many miles can it fly in one hour? ($50 \text{ minutes} = \frac{5}{6} \text{ hour}$)

_____ miles in one hour

- 3) Missy rode her bicycle 16 miles in $1\frac{1}{4}$ hours. What was her average speed in miles per hour?

_____ miles per hour

- 4) Fill in the blanks using the available answer choices.

A salad dressing calls for 3 parts oil and 1 part vinegar. Manuela uses 2 tablespoons of vinegar and 6 tablespoons of oil to make her salad dressing.

This situation _____ a proportional relationship because
(Blank 1)

_____.
(Blank 2)

Blank 1 options

- represents
- does not represent

Blank 2 options

- both have a ratio of 2 : 3
- both have a ratio of 3 : 1
- the ratios are different

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5) Fill in the blanks using the available answer choices.

A conveyor belt moves at a constant rate of 12 feet in 3 seconds. A second conveyor belt moves at a constant rate of 16 feet in 4 seconds.

This situation _____ a proportional relationship because
(Blank 1)
_____.
(Blank 2)

Blank 1 options

- represents
- does not represent

Blank 2 options

- both have a ratio of 1 foot to 4 seconds
- both have a ratio of 4 feet to 1 second
- the ratios are different

6) One blend of garden soil is 1 part minerals, 1 part peat moss, and 2 parts compost. Which of the mixtures below are in a proportional relationship with this blend? Select all that apply.

- ☐ 5 ft³ minerals, 5 ft³ peat moss, 10 ft³ compost
- ☐ 10 ft³ minerals, 15 ft³ peat moss, 15 ft³ compost
- ☐ 12 ft³ minerals, 12 ft³ peat moss, 24 ft³ compost
- ☐ 20 ft³ minerals, 20 ft³ peat moss, 40 ft³ compost
- ☐ 50 ft³ minerals, 50 ft³ peat moss, 50 ft³ compost
- ☐ 100 ft³ minerals, 100 ft³ peat moss, 200 ft³ compost

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7A)

The cost of a school lunch is \$2.50.

Complete the table to show the total cost of 1, 2, 3, and 4 lunches.

L u n c h e s B o u g h t	1	2	3	4
T o t a l C o s t (\$)	_____	_____	_____	_____

7B) Fill in the blanks using the available answer choices.

The total cost is _____ to the number of lunches bought because the
(Blank 1)
ratios between the quantities _____ the same unit
(Blank 2)
rate.

Blank 1 options

- proportional
- not proportional

Blank 2 options

- are all equal and have
- are not equal and do not have

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8A)

Anna walks her dog at a constant rate of 12 blocks in 8 minutes.

Complete the table to show the total time it takes to walk 12, 24, 36, and 48 blocks.

N u m b e r o f B l o c k s	12	24	36	48
N u m b e r o f M i n u t e s	_____	_____	_____	_____

8B) Fill in the blanks using the available answer choices.

The number of blocks is _____ to the number of minutes because the
(Blank 1)
ratios between the quantities _____ the same unit
(Blank 2)
rate.

Blank 1 options

- proportional
- not proportional

Blank 2 options

- are all equal and have
- are not equal and do not have

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9A)

Fun Center rents popcorn machines for \$20 per hour. In addition to the hourly charge, there is a rental fee of \$35.

Complete the table to show the total cost for 1, 2, 3, and 4 hours.

H o u r s	1	2	3	4
C o s t (\$)				

9B) Fill in the blanks using the available answer choices.

The number of hours is _____ to the total cost because the ratios
(Blank 1)
between the quantities _____ the same unit rate.
(Blank 2)

Blank 1 options

- proportional
- not proportional

Blank 2 options

- are all equal and have
- are not equal and do not have

10) Rocko paid \$12.50 for 25 game tickets. Louisa paid \$17.50 for 35 game tickets. What is the constant of proportionality for cost per ticket? Express your answer in decimal form.