

Name : _____

Comparing Unit Rates

Sheet 1

- 1) Jack's and Mo's orchards had a harvest of 450 lb and 1,215 lb of oranges respectively. If Jack had 6 orange trees and Mo had 15 orange trees, whose orchard acquired the higher yield per tree?

- 2) Zoe visits a departmental store to pick a can of salted mixed nuts. A 15.25 oz can of mixed nuts is priced at \$7.93 and the offer on a 25 oz can is \$11.75. Assist Zoe pick up the better deal.

- 3) Kathleen, a florist, designs 5 bridesmaid bouquets with 95 rose stems. She also creates 3 bouquets with 63 tulips for the flowergirls. Which type of bouquet was designed with lesser number of flowers?

- 4) Andre, Rick, and Ty were practicing for a track cycling race. Andre covered a distance of 750 m in 3 minutes. Rick clocked 4 minutes for a distance of 800 m. Ty raced 950 m in 5 minutes. Who covered the least distance per minute?

- 5) Sam visits 3 stores to find the best deal for a pair of jeans. Store A offers a discounted price of \$120 for 4 pairs of jeans. Two pairs of jeans sell for \$100 at Store B. Store C offers 3 pairs of jeans at \$99. Which store offers the best deal?

Name : _____

Answer key

Sheet 1

Comparing Unit Rates

- 1) Jack's and Mo's orchards had a harvest of 450 lb and 1,215 lb of oranges respectively. If Jack had 6 orange trees and Mo had 15 orange trees, whose orchard acquired the higher yield per tree?

Jack's orchard: 75 lb of oranges/tree ; Mo's orchard: 81 lb of oranges/tree

Mo's orchard acquired the higher yield of oranges per tree.

- 2) Zoe visits a departmental store to pick a can of salted mixed nuts. A 15.25 oz can of mixed nuts is priced at \$7.93 and the offer on a 25 oz can is \$11.75. Assist Zoe pick up the better deal.

15.25 oz can: \$0.52/oz ; 25 oz can: \$0.47/oz

The 25 oz can of salted mixed nuts makes a better deal.

- 3) Kathleen, a florist, designs 5 bridesmaid bouquets with 95 rose stems. She also creates 3 bouquets with 63 tulips for the flowergirls. Which type of bouquet was designed with lesser number of flowers?

Bridesmaid bouquets: 19 rose stems/bouquet ; Flowergirl bouquets: 21 tulips/bouquet

The bridesmaid bouquets contained lesser flowers.

- 4) Andre, Rick, and Ty were practicing for a track cycling race. Andre covered a distance of 750 m in 3 minutes. Rick clocked 4 minutes for a distance of 800 m. Ty raced 950 m in 5 minutes. Who covered the least distance per minute?

Andre: 250 m/minute ; Rick: 200 m/minute ; Ty: 190 m/minute

Ty clocked the least distance per minute.

- 5) Sam visits 3 stores to find the best deal for a pair of jeans. Store A offers a discounted price of \$120 for 4 pairs of jeans. Two pairs of jeans sell for \$100 at Store B. Store C offers 3 pairs of jeans at \$99. Which store offers the best deal?

Store A: \$30/pair of jeans ; Store B: \$50/pair of jeans ; Store C: \$33/pair of jeans

Store A offers the best deal.

Comparing Unit Rates

- 1) A contact center provides incentives based on the number of sales achieved by its representatives. Ross made 27 sales in 3 days. His colleague, Mona secured 49 sales in one week. Who achieved a higher sales target per day?

- 2) Kris's bike used up 4.5 gallons of gas to cover a distance of 297 miles. Jake travels 366 miles on a full tank capacity of 6 gallons. Ben's bike consumed 5.2 gallons of gas for a 265.2 miles long drive.

- 3) It was a busy evening at a restaurant. The chef served 45 customers in 5 hours. Another chef served 60 customers in 4 hours. Joe served for 3 hours. Joe served the most customers. Who had the busiest day?

- 4) Store A offers a pack of 100 pencils for \$12.50. Store B offers a pack of 120 pencils for \$18.42. The offer price for a pack of 100 pencils is the best deal. Which store offers the best deal?

- 5) Angela baked 5 batches of lemon sugar cookies with 17.5 cups of flour. She also made 3 batches of vanilla cookies using 11.25 cups of flour. Which type of cookies required more flour?

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Comparing Unit Rates

- 1) A contact center provides incentives based on the number of sales achieved by its representatives. Ross made 27 sales in 3 days. His colleague, Mona secured 49 sales in one week. Who achieved a higher sales target per day?

Ross: 9 sales/day ; Mona: 7 sales/day
Ross achieved a higher sales target per day.

- 2) Kris's bike used up 4.5 gallons of gas to cover a distance of 297 miles. Jake travels 366 miles on a full tank capacity of 6 gallons. Ben's bike consumed 5.2 gallons of gas for a 265.2 miles long drive.

Kris: 66

s/gallon

- 3) It was a busy evening at a restaurant. Ron served 45 customers in 5 hours, while Joe served 30 customers for 3 hours. Joe served the most customers per hour. Who had the busiest day?

Ron:

/hour

- 4) Store A offers a package of 10 LED bulbs for \$37.50. Store B offers a package of 12 LED bulbs for \$45.00. Store C offers a package of 15 LED bulbs for \$52.50. Which store offers the best deal?

Store A: \$3.75/LED bulb ; Store B: \$3.75/LED bulb ; Store C: \$3.50/LED bulb
Store B offers the best deal.

- 5) Angela baked 5 batches of lemon sugar cookies with 17.5 cups of flour. She also made 3 batches of vanilla cookies using 11.25 cups of flour. Which type of cookies required more flour?

Lemon sugar cookies: 3.5 cups of flour/batch ; Vanilla cookies: 3.75 cups of flour/batch
Vanilla cookies required more flour.

Comparing Unit Rates

- 1) Sam and John planted green beans in their respective gardens. Sam's garden harvested 19.5 lb of green beans in 3 weeks. John's garden produced a yield of 14.7 lb in 2 weeks. Whose garden yielded a higher harvest of beans per week?
-

- 2) Peter and Matt went on separate kayaks to catch fish in Onondaga lake, NY during the week hours of Sunday morning. Peter caught 96 lb of fish in 4 hours. Matt netted 120 lb of fish in 5 hours.
-

- 3) Serena and Stacey are going to different beauty salons in the city. Serena will spend \$75 for 5 hours of work. Which of the two salons is the better deal?
-

- 4) Twin brothers, Zack and Preston, answered 30 questions in 5 minutes. Preston answered 10 more questions than Zack. How many questions did each sibling answer?
-

- 5) Derek was surfing through the internet for a good deal on t-shirts. Help Derek find the best buy among the following deals: Three t-shirts for \$28.95, four t-shirts priced at \$39, and an offer of five t-shirts for \$49.95.
-

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Comparing Unit Rates

- 1) Sam and John planted green beans in their respective gardens. Sam's garden harvested 19.5 lb of green beans in 3 weeks. John's garden produced a yield of 14.7 lb in 2 weeks. Whose garden yielded a higher harvest of beans per week?

**Sam's garden: 6.5 lb of green beans/week ; John's garden: 7.35 lb of green beans/week
John's garden yielded a higher harvest of green beans per week.**

- 2) Peter and Matt went on separate kayaks to catch fish in Onondaga lake, NY during the week hours of Sunday morning. Peter caught 96 lb of fish in 4 hours. Matt netted 120 lb of fish in 5 hours.

**Peter's
Peter**

**h/hour
hour!**

- 3) Serena and Stacey are different beauty salons in the city. Serena works for 5 hours and earns \$75. Stacey works for 4 hours and earns \$60. Which of the two salons has a higher hourly rate?

Serena

hour

- 4) Twin brothers, Zac and Preston, solved a math problem. Zac solved the problem in 10 minutes. Preston solved the problem in 15 minutes. Which brother solved the problem at a faster rate?

**Zac solved 6 questions/minute ; Preston solved 4 questions/minute
Zac solved the problems at a faster rate per minute.**

- 5) Derek was surfing through the internet for a good deal on t-shirts. Help Derek find the best buy among the following deals: Three t-shirts for \$28.95, four t-shirts priced at \$39, and an offer of five t-shirts for \$49.95.

**Three t-shirts offer: \$9.65/t-shirt ; Four t-shirts offer: \$9.75/t-shirt ; Five t-shirts offer: \$9.99/t-shirt
The best deal is three t-shirts for \$28.95.**

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Name : _____

Comparing Unit Rates

Sheet 4

- 1) Henry bought 118 oz of dried figs for \$36.58 from a wholesale store. Karen picked a 7 oz pack of dried figs for \$2.73. Who clinched the better buy?
-

- 2) Flight A travelled a distance of 980 miles in 95 minutes. Flight B reached its destination in 82 minutes and covered a distance of 854 miles. Which of the two flights travelled at a faster speed?
-

- 3) Nancy is hosting a party and pours them equally into 4 beverage dispensers. Which dispenser pours juice equally into 3 dispensers. Which dispenser pours juice equally into 3 dispensers?
-

- 4) A supermarket has a sale on storage containers. A set of 5 storage containers is offered at an X-mas sale: A set of 3 storage containers is offered at an offer of \$2.73 on
-

- 5) A total of 348 people attended a health screening on day one of a medical camp over a 6 hour period. The team of doctors attended to 228 people in 4 hours on day two. Determine the day which recorded lesser number of people per hour.
-

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Comparing Unit Rates

- 1) Henry bought 118 oz of dried figs for \$36.58 from a wholesale store. Karen picked a 7 oz pack of dried figs for \$2.73. Who clinched the better buy?

**Henry's pick: \$0.31/oz ; Karen's pick: \$0.39/oz
Henry picked the better deal.**

- 2) Flight A travelled a distance of 980 miles in 95 minutes. Flight B reached its destination in 82 minutes and covered a distance of 854 miles. Which of the two flights travelled at a faster speed?

Flight A travel

miles/minute

- 3) Nancy is hosting a party and pours them equally into 4 beverage dispensers. The citrus juice is poured equally into 3 dispensers. Which dispenser has more juice per dispenser?

**Citrus juice
The citrus**

**/dispenser
dispenser.**

- 4) A supermarket has a sale offering an X-mas sale: A set of 5 storage containers for \$2.73. Another offer is a set of 3 storage containers for \$1.36. Which offer is the better deal?

**Set of 5: \$0.61/container ; Set of 3: \$0.91/container ; Set of 5: \$0.91/container
The best deal is the offer on 5 storage containers.**

- 5) A total of 348 people attended a health screening on day one of a medical camp over a 6 hour period. The team of doctors attended to 228 people in 4 hours on day two. Determine the day which recorded lesser number of people per hour.

**Day 1 screening: 58 people/hour ; Day 2 screening: 57 people/hour
Day two recorded lesser number of people per hour.**

Name : _____

Comparing Unit Rates

Sheet 5

- 1) Frank and Victor are having a highschool reunion at Keywest. Frank drove 184.5 miles in 3 hours and Victor took 2 hours to cover a distance of 131.6 miles to reach their destination. Which of the two friends covered more miles per hour?
-

- 2) Steve creates a flyer for a Christmas yard sale. Printer A took 48 seconds to make 8 copies. Printer B reproduced 7 copies in 49 seconds. Which printer took lesser time to print a card?
-

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- 3) Ally visited the theater following weekend, with her friends. For
-

entry tickets. The same location along re per ticket?

- 4) The electricity consumption had a billing cycle of in 28 days. Which m
-

month was 451 kWh that consumption of 440 kWh ricity?

- 5) A pet rescue and adoption center provides new homes for abandoned dogs. Forty-two labradors were given away for adoption in 6 days and 56 beagles were given new homes in 8 days. Which breed of dog found more homes per day?
-

Comparing Unit Rates

- 1) Frank and Victor are having a highschool reunion at Keywest. Frank drove 184.5 miles in 3 hours and Victor took 2 hours to cover a distance of 131.6 miles to reach their destination. Which of the two friends covered more miles per hour?

Frank drove: 61.5 miles/hour ; Victor drove: 65.8 miles/hour
Victor drove more miles per hour.

- 2) Steve creates a flyer for a Christmas yard sale. Printer A took 48 seconds to make 8 copies. Printer B reproduced 7 copies in 49 seconds. Which printer took lesser time to print a card?

Printer A

seconds/copy

- 3) Ally visited the theme park with her family the following weekend, with her friends. For

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entry tickets. The same location along with her friends. For how much more per ticket?

Family

ticket

- 4) The electricity consumption of a household had a billing cycle of 28 days. Which month recorded a lesser consumption of electricity?

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The first month was 451 kWh that the second month was 440 kWh. Which month recorded a lesser consumption of electricity?

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First month consumption: 15.75 kWh/day ; Second month consumption: 15.71 kWh/day
The first month recorded a lesser consumption of electricity.

- 5) A pet rescue and adoption center provides new homes for abandoned dogs. Forty-two labradors were given away for adoption in 6 days and 56 beagles were given new homes in 8 days. Which breed of dog found more homes per day?

Adoption of Labradors: 7/day ; Adoption of Beagles: 7/day
Both breeds of dogs found the same number of homes per day.