



Find the ratio and unit rate for each problem.

- Ex) 14 copies in 2 minutes      14:2      7 copies per minute
- 1) 10 hours to drive 710 miles      \_\_\_\_\_      \_\_\_\_\_ miles per hour
- 2) 3 boxes can hold 12 books      \_\_\_\_\_      \_\_\_\_\_ books per box
- 3) 111 dollars for 37 TV channels      \_\_\_\_\_      \_\_\_\_\_ dollars per channel
- 4) 48 customers over 2 days      \_\_\_\_\_      \_\_\_\_\_ customers per day
- 5) 8 classrooms with 136 students      \_\_\_\_\_      \_\_\_\_\_ students per class
- 6) 174 cherry pieces in 6 bags of candy      \_\_\_\_\_      \_\_\_\_\_ pieces per bag
- 7) 54 dollars for mowing 2 lawns      \_\_\_\_\_      \_\_\_\_\_ dollars per lawn
- 8) 2 mail trucks had 26 bags of letters      \_\_\_\_\_      \_\_\_\_\_ bags per truck
- 9) 265 points for defeating 53 enemies      \_\_\_\_\_      \_\_\_\_\_ points per enemy
- 10) 3 movie tickets cost \$42      \_\_\_\_\_      \_\_\_\_\_ dollars per ticket
- 11) 52 pints of juice in 4 containers      \_\_\_\_\_      \_\_\_\_\_ pints per container
- 12) 4 students earned 56 dollars total      \_\_\_\_\_      \_\_\_\_\_ dollars per student
- 13) 35 customers in 5 checkout lanes      \_\_\_\_\_      \_\_\_\_\_ customers per lane
- 14) 4 cell phone covers for 28 dollars      \_\_\_\_\_      \_\_\_\_\_ dollars per cover
- 15) 4 trays with 40 ice cubes      \_\_\_\_\_      \_\_\_\_\_ ice cubes per tray

Answers

- Ex. 14:2      7
1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_
13. \_\_\_\_\_
14. \_\_\_\_\_
15. \_\_\_\_\_



Find the ratio and unit rate for each problem.

- Ex) 14 copies in 2 minutes  $\frac{14:2}{}$   $\frac{7}{}$  copies per minute
- 1) 10 hours to drive 710 miles  $\frac{710:10}{}$   $\frac{71}{}$  miles per hour
- 2) 3 boxes can hold 12 books  $\frac{12:3}{}$   $\frac{4}{}$  books per box
- 3) 111 dollars for 37 TV channels  $\frac{111:37}{}$   $\frac{3}{}$  dollars per channel
- 4) 48 customers over 2 days  $\frac{48:2}{}$   $\frac{24}{}$  customers per day
- 5) 8 classrooms with 136 students  $\frac{136:8}{}$   $\frac{17}{}$  students per class
- 6) 174 cherry pieces in 6 bags of candy  $\frac{174:6}{}$   $\frac{29}{}$  pieces per bag
- 7) 54 dollars for mowing 2 lawns  $\frac{54:2}{}$   $\frac{27}{}$  dollars per lawn
- 8) 2 mail trucks had 26 bags of letters  $\frac{26:2}{}$   $\frac{13}{}$  bags per truck
- 9) 265 points for defeating 53 enemies  $\frac{265:53}{}$   $\frac{5}{}$  points per enemy
- 10) 3 movie tickets cost \$42  $\frac{42:3}{}$   $\frac{14}{}$  dollars per ticket
- 11) 52 pints of juice in 4 containers  $\frac{52:4}{}$   $\frac{13}{}$  pints per container
- 12) 4 students earned 56 dollars total  $\frac{56:4}{}$   $\frac{14}{}$  dollars per student
- 13) 35 customers in 5 checkout lanes  $\frac{35:5}{}$   $\frac{7}{}$  customers per lane
- 14) 4 cell phone covers for 28 dollars  $\frac{28:4}{}$   $\frac{7}{}$  dollars per cover
- 15) 4 trays with 40 ice cubes  $\frac{40:4}{}$   $\frac{10}{}$  ice cubes per tray

Answers

- Ex.  $\frac{14:2}{}$   $\frac{7}{}$
1.  $\frac{710:10}{}$   $\frac{71}{}$
2.  $\frac{12:3}{}$   $\frac{4}{}$
3.  $\frac{111:37}{}$   $\frac{3}{}$
4.  $\frac{48:2}{}$   $\frac{24}{}$
5.  $\frac{136:8}{}$   $\frac{17}{}$
6.  $\frac{174:6}{}$   $\frac{29}{}$
7.  $\frac{54:2}{}$   $\frac{27}{}$
8.  $\frac{26:2}{}$   $\frac{13}{}$
9.  $\frac{265:53}{}$   $\frac{5}{}$
10.  $\frac{42:3}{}$   $\frac{14}{}$
11.  $\frac{52:4}{}$   $\frac{13}{}$
12.  $\frac{56:4}{}$   $\frac{14}{}$
13.  $\frac{35:5}{}$   $\frac{7}{}$
14.  $\frac{28:4}{}$   $\frac{7}{}$
15.  $\frac{40:4}{}$   $\frac{10}{}$



Find the ratio and unit rate for each problem.

Answers

- Ex) 90 customers over 6 days 90:6 15 customers per day
- 1) 42 customers in 6 checkout lanes \_\_\_\_\_ customers per lane
- 2) 18 pies eaten in 3 minutes \_\_\_\_\_ pies per minute
- 3) 31 CDs with 124 songs \_\_\_\_\_ songs per CD
- 4) 4 chocolate bars for \$12 \_\_\_\_\_ dollars per bar
- 5) 114 cherry pieces in 6 bags of candy \_\_\_\_\_ pieces per bag
- 6) 43 people bought 301 tickets \_\_\_\_\_ tickets per person
- 7) 6 students earned 48 dollars total \_\_\_\_\_ dollars per student
- 8) 4 tanks with 188 fish \_\_\_\_\_ fish per tank
- 9) 5 bags with 105 cans \_\_\_\_\_ cans per bag
- 10) 80 centimeters of snow in 5 hours \_\_\_\_\_ centimeters per hour
- 11) 82 points for defeating 41 enemies \_\_\_\_\_ points per enemy
- 12) 62 brownies took 186 cups of fudge \_\_\_\_\_ cups per brownie
- 13) 6 trays with 30 ice cubes \_\_\_\_\_ ice cubes per tray
- 14) 6 boxes can hold 54 books \_\_\_\_\_ books per box
- 15) 4 game controllers had 40 buttons \_\_\_\_\_ buttons per controller

- Ex. 90:6 15
1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_
13. \_\_\_\_\_
14. \_\_\_\_\_
15. \_\_\_\_\_



Find the ratio and unit rate for each problem.

- Ex) 90 customers over 6 days 90:6 15 customers per day
- 1) 42 customers in 6 checkout lanes 42:6 7 customers per lane
- 2) 18 pies eaten in 3 minutes 18:3 6 pies per minute
- 3) 31 CDs with 124 songs 124:31 4 songs per CD
- 4) 4 chocolate bars for \$12 12:4 3 dollars per bar
- 5) 114 cherry pieces in 6 bags of candy 114:6 19 pieces per bag
- 6) 43 people bought 301 tickets 301:43 7 tickets per person
- 7) 6 students earned 48 dollars total 48:6 8 dollars per student
- 8) 4 tanks with 188 fish 188:4 47 fish per tank
- 9) 5 bags with 105 cans 105:5 21 cans per bag
- 10) 80 centimeters of snow in 5 hours 80:5 16 centimeters per hour
- 11) 82 points for defeating 41 enemies 82:41 2 points per enemy
- 12) 62 brownies took 186 cups of fudge 186:62 3 cups per brownie
- 13) 6 trays with 30 ice cubes 30:6 5 ice cubes per tray
- 14) 6 boxes can hold 54 books 54:6 9 books per box
- 15) 4 game controllers had 40 buttons 40:4 10 buttons per controller

Answers

- Ex. 90:6 15
1. 42:6 7
2. 18:3 6
3. 124:31 4
4. 12:4 3
5. 114:6 19
6. 301:43 7
7. 48:6 8
8. 188:4 47
9. 105:5 21
10. 80:5 16
11. 82:41 2
12. 186:62 3
13. 30:6 5
14. 54:6 9
15. 40:4 10



Find the ratio and unit rate for each problem.

Answers

- Ex) 10 chocolate bars for \$20      20:10      2 dollars per bar
- 1) 7 mail trucks had 35 bags of letters      \_\_\_\_\_      \_\_\_\_\_ bags per truck
- 2) 78 dollars for mowing 3 lawns      \_\_\_\_\_      \_\_\_\_\_ dollars per lawn
- 3) 2 boxes can hold 10 books      \_\_\_\_\_      \_\_\_\_\_ books per box
- 4) 2 bags with 196 cans      \_\_\_\_\_      \_\_\_\_\_ cans per bag
- 5) 6 cell phone covers for 24 dollars      \_\_\_\_\_      \_\_\_\_\_ dollars per cover
- 6) 14 pies eaten in 2 minutes      \_\_\_\_\_      \_\_\_\_\_ pies per minute
- 7) 60 pints of juice in 4 containers      \_\_\_\_\_      \_\_\_\_\_ pints per container
- 8) 6 movie tickets cost \$90      \_\_\_\_\_      \_\_\_\_\_ dollars per ticket
- 9) 37 CDs with 185 songs      \_\_\_\_\_      \_\_\_\_\_ songs per CD
- 10) 6 classrooms with 90 students      \_\_\_\_\_      \_\_\_\_\_ students per class
- 11) 22 people bought 110 tickets      \_\_\_\_\_      \_\_\_\_\_ tickets per person
- 12) 3 game controllers had 18 buttons      \_\_\_\_\_      \_\_\_\_\_ buttons per controller
- 13) 118 points for defeating 59 enemies      \_\_\_\_\_      \_\_\_\_\_ points per enemy
- 14) 6 minutes to type 564 words      \_\_\_\_\_      \_\_\_\_\_ words per minute
- 15) 288 centimeters of snow in 24 hours      \_\_\_\_\_      \_\_\_\_\_ centimeters per hour

- Ex. 20:10      2
1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_
13. \_\_\_\_\_
14. \_\_\_\_\_
15. \_\_\_\_\_



Find the ratio and unit rate for each problem.

- Ex) 10 chocolate bars for \$20      20:10      2 dollars per bar
- 1) 7 mail trucks had 35 bags of letters      35:7      5 bags per truck
- 2) 78 dollars for mowing 3 lawns      78:3      26 dollars per lawn
- 3) 2 boxes can hold 10 books      10:2      5 books per box
- 4) 2 bags with 196 cans      196:2      98 cans per bag
- 5) 6 cell phone covers for 24 dollars      24:6      4 dollars per cover
- 6) 14 pies eaten in 2 minutes      14:2      7 pies per minute
- 7) 60 pints of juice in 4 containers      60:4      15 pints per container
- 8) 6 movie tickets cost \$90      90:6      15 dollars per ticket
- 9) 37 CDs with 185 songs      185:37      5 songs per CD
- 10) 6 classrooms with 90 students      90:6      15 students per class
- 11) 22 people bought 110 tickets      110:22      5 tickets per person
- 12) 3 game controllers had 18 buttons      18:3      6 buttons per controller
- 13) 118 points for defeating 59 enemies      118:59      2 points per enemy
- 14) 6 minutes to type 564 words      564:6      94 words per minute
- 15) 288 centimeters of snow in 24 hours      288:24      12 centimeters per hour

Answers

- Ex. 20:10      2
1. 35:7      5
2. 78:3      26
3. 10:2      5
4. 196:2      98
5. 24:6      4
6. 14:2      7
7. 60:4      15
8. 90:6      15
9. 185:37      5
10. 90:6      15
11. 110:22      5
12. 18:3      6
13. 118:59      2
14. 564:6      94
15. 288:24      12



Find the ratio and unit rate for each problem.

Answers

Ex) 5 bags with 295 cans	<u>295:5</u>	<u>59</u> cans per bag	Ex. <u>295:5</u>	<u>59</u>
1) 36 pints of juice in 4 containers	_____	_____ pints per container	1. _____	_____
2) 4 tanks with 308 fish	_____	_____ fish per tank	2. _____	_____
3) 36 people bought 396 tickets	_____	_____ tickets per person	3. _____	_____
4) 10 classrooms with 130 students	_____	_____ students per class	4. _____	_____
5) 7 game controllers had 63 buttons	_____	_____ buttons per controller	5. _____	_____
6) 90 dollars for 30 TV channels	_____	_____ dollars per channel	6. _____	_____
7) 108 dollars for mowing 6 lawns	_____	_____ dollars per lawn	7. _____	_____
8) 400 points for defeating 100 enemies	_____	_____ points per enemy	8. _____	_____
9) 9 hours to drive 513 miles	_____	_____ miles per hour	9. _____	_____
10) 32 customers in 4 checkout lanes	_____	_____ customers per lane	10. _____	_____
11) 108 customers over 6 days	_____	_____ customers per day	11. _____	_____
12) 7 cell phone covers for 42 dollars	_____	_____ dollars per cover	12. _____	_____
13) 3 minutes to type 339 words	_____	_____ words per minute	13. _____	_____
14) 40 copies in 4 minutes	_____	_____ copies per minute	14. _____	_____
15) 96 cherry pieces in 6 bags of candy	_____	_____ pieces per bag	15. _____	_____



Find the ratio and unit rate for each problem.

- Ex) 5 bags with 295 cans      295:5      59 cans per bag
- 1) 36 pints of juice in 4 containers      36:4      9 pints per container
- 2) 4 tanks with 308 fish      308:4      77 fish per tank
- 3) 36 people bought 396 tickets      396:36      11 tickets per person
- 4) 10 classrooms with 130 students      130:10      13 students per class
- 5) 7 game controllers had 63 buttons      63:7      9 buttons per controller
- 6) 90 dollars for 30 TV channels      90:30      3 dollars per channel
- 7) 108 dollars for mowing 6 lawns      108:6      18 dollars per lawn
- 8) 400 points for defeating 100 enemies      400:100      4 points per enemy
- 9) 9 hours to drive 513 miles      513:9      57 miles per hour
- 10) 32 customers in 4 checkout lanes      32:4      8 customers per lane
- 11) 108 customers over 6 days      108:6      18 customers per day
- 12) 7 cell phone covers for 42 dollars      42:7      6 dollars per cover
- 13) 3 minutes to type 339 words      339:3      113 words per minute
- 14) 40 copies in 4 minutes      40:4      10 copies per minute
- 15) 96 cherry pieces in 6 bags of candy      96:6      16 pieces per bag

Answers

- Ex. 295:5      59
1. 36:4      9
2. 308:4      77
3. 396:36      11
4. 130:10      13
5. 63:7      9
6. 90:30      3
7. 108:6      18
8. 400:100      4
9. 513:9      57
10. 32:4      8
11. 108:6      18
12. 42:7      6
13. 339:3      113
14. 40:4      10
15. 96:6      16





Find the ratio and unit rate for each problem.

Answers

- Ex) 5 tanks with 335 fish 335:5 67 fish per tank
- 1) 4 classrooms with 116 students \_\_\_\_\_ students per class
- 2) 51 dollars for mowing 3 lawns \_\_\_\_\_ dollars per lawn
- 3) 5 chocolate bars for \$15 \_\_\_\_\_ dollars per bar
- 4) 5 minutes to type 450 words \_\_\_\_\_ words per minute
- 5) 8 cell phone covers for 40 dollars \_\_\_\_\_ dollars per cover
- 6) 3 bags with 141 cans \_\_\_\_\_ cans per bag
- 7) 9 mail trucks had 126 bags of letters \_\_\_\_\_ bags per truck
- 8) 9 boxes can hold 63 books \_\_\_\_\_ books per box
- 9) 6 hours to drive 402 miles \_\_\_\_\_ miles per hour
- 10) 95 brownies took 285 cups of fudge \_\_\_\_\_ cups per brownie
- 11) 54 customers over 2 days \_\_\_\_\_ customers per day
- 12) 56 customers in 4 checkout lanes \_\_\_\_\_ customers per lane
- 13) 4 trays with 20 ice cubes \_\_\_\_\_ ice cubes per tray
- 14) 45 pints of juice in 3 containers \_\_\_\_\_ pints per container
- 15) 9 students earned 72 dollars total \_\_\_\_\_ dollars per student

- Ex. 335:5 67
1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_
13. \_\_\_\_\_
14. \_\_\_\_\_
15. \_\_\_\_\_



Find the ratio and unit rate for each problem.

- Ex) 5 tanks with 335 fish  $\frac{335:5}{}$   $\frac{67}{}$  fish per tank
- 1) 4 classrooms with 116 students  $\frac{116:4}{}$   $\frac{29}{}$  students per class
- 2) 51 dollars for mowing 3 lawns  $\frac{51:3}{}$   $\frac{17}{}$  dollars per lawn
- 3) 5 chocolate bars for \$15  $\frac{15:5}{}$   $\frac{3}{}$  dollars per bar
- 4) 5 minutes to type 450 words  $\frac{450:5}{}$   $\frac{90}{}$  words per minute
- 5) 8 cell phone covers for 40 dollars  $\frac{40:8}{}$   $\frac{5}{}$  dollars per cover
- 6) 3 bags with 141 cans  $\frac{141:3}{}$   $\frac{47}{}$  cans per bag
- 7) 9 mail trucks had 126 bags of letters  $\frac{126:9}{}$   $\frac{14}{}$  bags per truck
- 8) 9 boxes can hold 63 books  $\frac{63:9}{}$   $\frac{7}{}$  books per box
- 9) 6 hours to drive 402 miles  $\frac{402:6}{}$   $\frac{67}{}$  miles per hour
- 10) 95 brownies took 285 cups of fudge  $\frac{285:95}{}$   $\frac{3}{}$  cups per brownie
- 11) 54 customers over 2 days  $\frac{54:2}{}$   $\frac{27}{}$  customers per day
- 12) 56 customers in 4 checkout lanes  $\frac{56:4}{}$   $\frac{14}{}$  customers per lane
- 13) 4 trays with 20 ice cubes  $\frac{20:4}{}$   $\frac{5}{}$  ice cubes per tray
- 14) 45 pints of juice in 3 containers  $\frac{45:3}{}$   $\frac{15}{}$  pints per container
- 15) 9 students earned 72 dollars total  $\frac{72:9}{}$   $\frac{8}{}$  dollars per student

Answers

- Ex.  $\frac{335:5}{}$   $\frac{67}{}$
1.  $\frac{116:4}{}$   $\frac{29}{}$
2.  $\frac{51:3}{}$   $\frac{17}{}$
3.  $\frac{15:5}{}$   $\frac{3}{}$
4.  $\frac{450:5}{}$   $\frac{90}{}$
5.  $\frac{40:8}{}$   $\frac{5}{}$
6.  $\frac{141:3}{}$   $\frac{47}{}$
7.  $\frac{126:9}{}$   $\frac{14}{}$
8.  $\frac{63:9}{}$   $\frac{7}{}$
9.  $\frac{402:6}{}$   $\frac{67}{}$
10.  $\frac{285:95}{}$   $\frac{3}{}$
11.  $\frac{54:2}{}$   $\frac{27}{}$
12.  $\frac{56:4}{}$   $\frac{14}{}$
13.  $\frac{20:4}{}$   $\frac{5}{}$
14.  $\frac{45:3}{}$   $\frac{15}{}$
15.  $\frac{72:9}{}$   $\frac{8}{}$



Find the ratio and unit rate for each problem.

Answers

Ex) 23 CDs with 207 songs	<u>207:23</u>	<u>9</u> songs per CD	Ex. <u>207:23</u>	<u>9</u>
1) 36 customers in 4 checkout lanes	_____	_____ customers per lane	1. _____	_____
2) 6 boxes can hold 60 books	_____	_____ books per box	2. _____	_____
3) 76 pints of juice in 4 containers	_____	_____ pints per container	3. _____	_____
4) 60 shirts for 120 dollars	_____	_____ dollars per shirt	4. _____	_____
5) 4 trays with 24 ice cubes	_____	_____ ice cubes per tray	5. _____	_____
6) 9 students earned 72 dollars total	_____	_____ dollars per student	6. _____	_____
7) 7 hours of TV had 98 commercials	_____	_____ commercials per hour	7. _____	_____
8) 63 copies in 9 minutes	_____	_____ copies per minute	8. _____	_____
9) 336 cherry pieces in 8 bags of candy	_____	_____ pieces per bag	9. _____	_____
10) 9 movie tickets cost \$126	_____	_____ dollars per ticket	10. _____	_____
11) 132 points for defeating 44 enemies	_____	_____ points per enemy	11. _____	_____
12) 3 minutes to type 297 words	_____	_____ words per minute	12. _____	_____
13) 231 customers over 7 days	_____	_____ customers per day	13. _____	_____
14) 87 brownies took 174 cups of fudge	_____	_____ cups per brownie	14. _____	_____
15) 6 mail trucks had 66 bags of letters	_____	_____ bags per truck	15. _____	_____



Find the ratio and unit rate for each problem.

- Ex) 23 CDs with 207 songs  $\frac{207:23}{9}$  songs per CD
- 1) 36 customers in 4 checkout lanes  $\frac{36:4}{9}$  customers per lane
- 2) 6 boxes can hold 60 books  $\frac{60:6}{10}$  books per box
- 3) 76 pints of juice in 4 containers  $\frac{76:4}{19}$  pints per container
- 4) 60 shirts for 120 dollars  $\frac{120:60}{2}$  dollars per shirt
- 5) 4 trays with 24 ice cubes  $\frac{24:4}{6}$  ice cubes per tray
- 6) 9 students earned 72 dollars total  $\frac{72:9}{8}$  dollars per student
- 7) 7 hours of TV had 98 commercials  $\frac{98:7}{14}$  commercials per hour
- 8) 63 copies in 9 minutes  $\frac{63:9}{7}$  copies per minute
- 9) 336 cherry pieces in 8 bags of candy  $\frac{336:8}{42}$  pieces per bag
- 10) 9 movie tickets cost \$126  $\frac{126:9}{14}$  dollars per ticket
- 11) 132 points for defeating 44 enemies  $\frac{132:44}{3}$  points per enemy
- 12) 3 minutes to type 297 words  $\frac{297:3}{99}$  words per minute
- 13) 231 customers over 7 days  $\frac{231:7}{33}$  customers per day
- 14) 87 brownies took 174 cups of fudge  $\frac{174:87}{2}$  cups per brownie
- 15) 6 mail trucks had 66 bags of letters  $\frac{66:6}{11}$  bags per truck

Answers

- Ex.  $\frac{207:23}{9}$
1.  $\frac{36:4}{9}$
2.  $\frac{60:6}{10}$
3.  $\frac{76:4}{19}$
4.  $\frac{120:60}{2}$
5.  $\frac{24:4}{6}$
6.  $\frac{72:9}{8}$
7.  $\frac{98:7}{14}$
8.  $\frac{63:9}{7}$
9.  $\frac{336:8}{42}$
10.  $\frac{126:9}{14}$
11.  $\frac{132:44}{3}$
12.  $\frac{297:3}{99}$
13.  $\frac{231:7}{33}$
14.  $\frac{174:87}{2}$
15.  $\frac{66:6}{11}$



Find the ratio and unit rate for each problem.

Answers

- Ex) 120 customers in 8 checkout lanes      120:8      15 customers per lane
- 1) 23 brownies took 46 cups of fudge      \_\_\_\_\_      \_\_\_\_\_ cups per brownie
- 2) 9 game controllers had 54 buttons      \_\_\_\_\_      \_\_\_\_\_ buttons per controller
- 3) 288 cherry pieces in 6 bags of candy      \_\_\_\_\_      \_\_\_\_\_ pieces per bag
- 4) 7 classrooms with 245 students      \_\_\_\_\_      \_\_\_\_\_ students per class
- 5) 168 customers over 6 days      \_\_\_\_\_      \_\_\_\_\_ customers per day
- 6) 5 movie tickets cost \$95      \_\_\_\_\_      \_\_\_\_\_ dollars per ticket
- 7) 6 bags with 426 cans      \_\_\_\_\_      \_\_\_\_\_ cans per bag
- 8) 2 tanks with 144 fish      \_\_\_\_\_      \_\_\_\_\_ fish per tank
- 9) 56 centimeters of snow in 7 hours      \_\_\_\_\_      \_\_\_\_\_ centimeters per hour
- 10) 23 CDs with 115 songs      \_\_\_\_\_      \_\_\_\_\_ songs per CD
- 11) 36 people bought 252 tickets      \_\_\_\_\_      \_\_\_\_\_ tickets per person
- 12) 12 pies eaten in 3 minutes      \_\_\_\_\_      \_\_\_\_\_ pies per minute
- 13) 60 dollars for 30 TV channels      \_\_\_\_\_      \_\_\_\_\_ dollars per channel
- 14) 35 pints of juice in 5 containers      \_\_\_\_\_      \_\_\_\_\_ pints per container
- 15) 3 mail trucks had 12 bags of letters      \_\_\_\_\_      \_\_\_\_\_ bags per truck

- Ex. 120:8      15
1. \_\_\_\_\_      \_\_\_\_\_
2. \_\_\_\_\_      \_\_\_\_\_
3. \_\_\_\_\_      \_\_\_\_\_
4. \_\_\_\_\_      \_\_\_\_\_
5. \_\_\_\_\_      \_\_\_\_\_
6. \_\_\_\_\_      \_\_\_\_\_
7. \_\_\_\_\_      \_\_\_\_\_
8. \_\_\_\_\_      \_\_\_\_\_
9. \_\_\_\_\_      \_\_\_\_\_
10. \_\_\_\_\_      \_\_\_\_\_
11. \_\_\_\_\_      \_\_\_\_\_
12. \_\_\_\_\_      \_\_\_\_\_
13. \_\_\_\_\_      \_\_\_\_\_
14. \_\_\_\_\_      \_\_\_\_\_
15. \_\_\_\_\_      \_\_\_\_\_



Find the ratio and unit rate for each problem.

- |     |                                      |               |           |                        |
|-----|--------------------------------------|---------------|-----------|------------------------|
| Ex) | 120 customers in 8 checkout lanes    | <u>120:8</u>  | <u>15</u> | customers per lane     |
| 1)  | 23 brownies took 46 cups of fudge    | <u>46:23</u>  | <u>2</u>  | cups per brownie       |
| 2)  | 9 game controllers had 54 buttons    | <u>54:9</u>   | <u>6</u>  | buttons per controller |
| 3)  | 288 cherry pieces in 6 bags of candy | <u>288:6</u>  | <u>48</u> | pieces per bag         |
| 4)  | 7 classrooms with 245 students       | <u>245:7</u>  | <u>35</u> | students per class     |
| 5)  | 168 customers over 6 days            | <u>168:6</u>  | <u>28</u> | customers per day      |
| 6)  | 5 movie tickets cost \$95            | <u>95:5</u>   | <u>19</u> | dollars per ticket     |
| 7)  | 6 bags with 426 cans                 | <u>426:6</u>  | <u>71</u> | cans per bag           |
| 8)  | 2 tanks with 144 fish                | <u>144:2</u>  | <u>72</u> | fish per tank          |
| 9)  | 56 centimeters of snow in 7 hours    | <u>56:7</u>   | <u>8</u>  | centimeters per hour   |
| 10) | 23 CDs with 115 songs                | <u>115:23</u> | <u>5</u>  | songs per CD           |
| 11) | 36 people bought 252 tickets         | <u>252:36</u> | <u>7</u>  | tickets per person     |
| 12) | 12 pies eaten in 3 minutes           | <u>12:3</u>   | <u>4</u>  | pies per minute        |
| 13) | 60 dollars for 30 TV channels        | <u>60:30</u>  | <u>2</u>  | dollars per channel    |
| 14) | 35 pints of juice in 5 containers    | <u>35:5</u>   | <u>7</u>  | pints per container    |
| 15) | 3 mail trucks had 12 bags of letters | <u>12:3</u>   | <u>4</u>  | bags per truck         |

Answers

- |     |               |           |
|-----|---------------|-----------|
| Ex. | <u>120:8</u>  | <u>15</u> |
| 1.  | <u>46:23</u>  | <u>2</u>  |
| 2.  | <u>54:9</u>   | <u>6</u>  |
| 3.  | <u>288:6</u>  | <u>48</u> |
| 4.  | <u>245:7</u>  | <u>35</u> |
| 5.  | <u>168:6</u>  | <u>28</u> |
| 6.  | <u>95:5</u>   | <u>19</u> |
| 7.  | <u>426:6</u>  | <u>71</u> |
| 8.  | <u>144:2</u>  | <u>72</u> |
| 9.  | <u>56:7</u>   | <u>8</u>  |
| 10. | <u>115:23</u> | <u>5</u>  |
| 11. | <u>252:36</u> | <u>7</u>  |
| 12. | <u>12:3</u>   | <u>4</u>  |
| 13. | <u>60:30</u>  | <u>2</u>  |
| 14. | <u>35:5</u>   | <u>7</u>  |
| 15. | <u>12:3</u>   | <u>4</u>  |



Find the ratio and unit rate for each problem.

Answers

- Ex) 3 minutes to type 243 words      243:3      81 words per minute
- 1) 3 students earned 21 dollars total      \_\_\_\_\_      \_\_\_\_\_ dollars per student
- 2) 6 mail trucks had 72 bags of letters      \_\_\_\_\_      \_\_\_\_\_ bags per truck
- 3) 132 points for defeating 44 enemies      \_\_\_\_\_      \_\_\_\_\_ points per enemy
- 4) 5 hours of TV had 55 commercials      \_\_\_\_\_      \_\_\_\_\_ commercials per hour
- 5) 112 centimeters of snow in 16 hours      \_\_\_\_\_      \_\_\_\_\_ centimeters per hour
- 6) 9 classrooms with 126 students      \_\_\_\_\_      \_\_\_\_\_ students per class
- 7) 4 tanks with 184 fish      \_\_\_\_\_      \_\_\_\_\_ fish per tank
- 8) 21 pies eaten in 3 minutes      \_\_\_\_\_      \_\_\_\_\_ pies per minute
- 9) 36 copies in 3 minutes      \_\_\_\_\_      \_\_\_\_\_ copies per minute
- 10) 58 brownies took 116 cups of fudge      \_\_\_\_\_      \_\_\_\_\_ cups per brownie
- 11) 85 pints of juice in 5 containers      \_\_\_\_\_      \_\_\_\_\_ pints per container
- 12) 7 bags with 329 cans      \_\_\_\_\_      \_\_\_\_\_ cans per bag
- 13) 2 movie tickets cost \$20      \_\_\_\_\_      \_\_\_\_\_ dollars per ticket
- 14) 24 people bought 480 tickets      \_\_\_\_\_      \_\_\_\_\_ tickets per person
- 15) 77 shirts for 231 dollars      \_\_\_\_\_      \_\_\_\_\_ dollars per shirt

- Ex. 243:3      81
1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_
13. \_\_\_\_\_
14. \_\_\_\_\_
15. \_\_\_\_\_



Find the ratio and unit rate for each problem.

- Ex) 3 minutes to type 243 words  $\frac{243:3}{81}$  words per minute
- 1) 3 students earned 21 dollars total  $\frac{21:3}{7}$  dollars per student
- 2) 6 mail trucks had 72 bags of letters  $\frac{72:6}{12}$  bags per truck
- 3) 132 points for defeating 44 enemies  $\frac{132:44}{3}$  points per enemy
- 4) 5 hours of TV had 55 commercials  $\frac{55:5}{11}$  commercials per hour
- 5) 112 centimeters of snow in 16 hours  $\frac{112:16}{7}$  centimeters per hour
- 6) 9 classrooms with 126 students  $\frac{126:9}{14}$  students per class
- 7) 4 tanks with 184 fish  $\frac{184:4}{46}$  fish per tank
- 8) 21 pies eaten in 3 minutes  $\frac{21:3}{7}$  pies per minute
- 9) 36 copies in 3 minutes  $\frac{36:3}{12}$  copies per minute
- 10) 58 brownies took 116 cups of fudge  $\frac{116:58}{2}$  cups per brownie
- 11) 85 pints of juice in 5 containers  $\frac{85:5}{17}$  pints per container
- 12) 7 bags with 329 cans  $\frac{329:7}{47}$  cans per bag
- 13) 2 movie tickets cost \$20  $\frac{20:2}{10}$  dollars per ticket
- 14) 24 people bought 480 tickets  $\frac{480:24}{20}$  tickets per person
- 15) 77 shirts for 231 dollars  $\frac{231:77}{3}$  dollars per shirt

Answers

- Ex.  $\frac{243:3}{81}$
1.  $\frac{21:3}{7}$
2.  $\frac{72:6}{12}$
3.  $\frac{132:44}{3}$
4.  $\frac{55:5}{11}$
5.  $\frac{112:16}{7}$
6.  $\frac{126:9}{14}$
7.  $\frac{184:4}{46}$
8.  $\frac{21:3}{7}$
9.  $\frac{36:3}{12}$
10.  $\frac{116:58}{2}$
11.  $\frac{85:5}{17}$
12.  $\frac{329:7}{47}$
13.  $\frac{20:2}{10}$
14.  $\frac{480:24}{20}$
15.  $\frac{231:77}{3}$





Find the ratio and unit rate for each problem.

- Ex) 6 minutes to type 630 words      630:6      105 words per minute
- 1) 144 cherry pieces in 4 bags of candy      \_\_\_\_\_      \_\_\_\_\_ pieces per bag
- 2) 4 cell phone covers for 24 dollars      \_\_\_\_\_      \_\_\_\_\_ dollars per cover
- 3) 73 shirts for 511 dollars      \_\_\_\_\_      \_\_\_\_\_ dollars per shirt
- 4) 91 copies in 7 minutes      \_\_\_\_\_      \_\_\_\_\_ copies per minute
- 5) 60 dollars for 20 TV channels      \_\_\_\_\_      \_\_\_\_\_ dollars per channel
- 6) 126 dollars for mowing 6 lawns      \_\_\_\_\_      \_\_\_\_\_ dollars per lawn
- 7) 324 points for defeating 36 enemies      \_\_\_\_\_      \_\_\_\_\_ points per enemy
- 8) 2 classrooms with 34 students      \_\_\_\_\_      \_\_\_\_\_ students per class
- 9) 171 centimeters of snow in 9 hours      \_\_\_\_\_      \_\_\_\_\_ centimeters per hour
- 10) 8 hours to drive 568 miles      \_\_\_\_\_      \_\_\_\_\_ miles per hour
- 11) 3 chocolate bars for \$6      \_\_\_\_\_      \_\_\_\_\_ dollars per bar
- 12) 7 mail trucks had 84 bags of letters      \_\_\_\_\_      \_\_\_\_\_ bags per truck
- 13) 2 hours of TV had 16 commercials      \_\_\_\_\_      \_\_\_\_\_ commercials per hour
- 14) 6 trays with 42 ice cubes      \_\_\_\_\_      \_\_\_\_\_ ice cubes per tray
- 15) 56 customers in 8 checkout lanes      \_\_\_\_\_      \_\_\_\_\_ customers per lane

Answers

- Ex. 630:6      105
1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_
13. \_\_\_\_\_
14. \_\_\_\_\_
15. \_\_\_\_\_



Find the ratio and unit rate for each problem.

- Ex) 6 minutes to type 630 words  $\frac{630:6}{105}$  words per minute
- 1) 144 cherry pieces in 4 bags of candy  $\frac{144:4}{36}$  pieces per bag
- 2) 4 cell phone covers for 24 dollars  $\frac{24:4}{6}$  dollars per cover
- 3) 73 shirts for 511 dollars  $\frac{511:73}{7}$  dollars per shirt
- 4) 91 copies in 7 minutes  $\frac{91:7}{13}$  copies per minute
- 5) 60 dollars for 20 TV channels  $\frac{60:20}{3}$  dollars per channel
- 6) 126 dollars for mowing 6 lawns  $\frac{126:6}{21}$  dollars per lawn
- 7) 324 points for defeating 36 enemies  $\frac{324:36}{9}$  points per enemy
- 8) 2 classrooms with 34 students  $\frac{34:2}{17}$  students per class
- 9) 171 centimeters of snow in 9 hours  $\frac{171:9}{19}$  centimeters per hour
- 10) 8 hours to drive 568 miles  $\frac{568:8}{71}$  miles per hour
- 11) 3 chocolate bars for \$6  $\frac{6:3}{2}$  dollars per bar
- 12) 7 mail trucks had 84 bags of letters  $\frac{84:7}{12}$  bags per truck
- 13) 2 hours of TV had 16 commercials  $\frac{16:2}{8}$  commercials per hour
- 14) 6 trays with 42 ice cubes  $\frac{42:6}{7}$  ice cubes per tray
- 15) 56 customers in 8 checkout lanes  $\frac{56:8}{7}$  customers per lane

Answers

- Ex.  $\frac{630:6}{105}$
1.  $\frac{144:4}{36}$
2.  $\frac{24:4}{6}$
3.  $\frac{511:73}{7}$
4.  $\frac{91:7}{13}$
5.  $\frac{60:20}{3}$
6.  $\frac{126:6}{21}$
7.  $\frac{324:36}{9}$
8.  $\frac{34:2}{17}$
9.  $\frac{171:9}{19}$
10.  $\frac{568:8}{71}$
11.  $\frac{6:3}{2}$
12.  $\frac{84:7}{12}$
13.  $\frac{16:2}{8}$
14.  $\frac{42:6}{7}$
15.  $\frac{56:8}{7}$



Find the ratio and unit rate for each problem.

Answers

- Ex) 16 copies in 2 minutes      16:2      8 copies per minute
- 1) 6 bags with 216 cans      \_\_\_\_\_      \_\_\_\_\_ cans per bag
- 2) 2 movie tickets cost \$30      \_\_\_\_\_      \_\_\_\_\_ dollars per ticket
- 3) 18 centimeters of snow in 2 hours      \_\_\_\_\_      \_\_\_\_\_ centimeters per hour
- 4) 6 mail trucks had 60 bags of letters      \_\_\_\_\_      \_\_\_\_\_ bags per truck
- 5) 9 boxes can hold 45 books      \_\_\_\_\_      \_\_\_\_\_ books per box
- 6) 3 hours to drive 189 miles      \_\_\_\_\_      \_\_\_\_\_ miles per hour
- 7) 48 CDs with 432 songs      \_\_\_\_\_      \_\_\_\_\_ songs per CD
- 8) 35 shirts for 105 dollars      \_\_\_\_\_      \_\_\_\_\_ dollars per shirt
- 9) 8 trays with 56 ice cubes      \_\_\_\_\_      \_\_\_\_\_ ice cubes per tray
- 10) 9 game controllers had 90 buttons      \_\_\_\_\_      \_\_\_\_\_ buttons per controller
- 11) 2 tanks with 98 fish      \_\_\_\_\_      \_\_\_\_\_ fish per tank
- 12) 28 pints of juice in 4 containers      \_\_\_\_\_      \_\_\_\_\_ pints per container
- 13) 189 cherry pieces in 7 bags of candy      \_\_\_\_\_      \_\_\_\_\_ pieces per bag
- 14) 105 dollars for 35 TV channels      \_\_\_\_\_      \_\_\_\_\_ dollars per channel
- 15) 99 customers over 3 days      \_\_\_\_\_      \_\_\_\_\_ customers per day

- Ex. 16:2      8
1. \_\_\_\_\_      \_\_\_\_\_
2. \_\_\_\_\_      \_\_\_\_\_
3. \_\_\_\_\_      \_\_\_\_\_
4. \_\_\_\_\_      \_\_\_\_\_
5. \_\_\_\_\_      \_\_\_\_\_
6. \_\_\_\_\_      \_\_\_\_\_
7. \_\_\_\_\_      \_\_\_\_\_
8. \_\_\_\_\_      \_\_\_\_\_
9. \_\_\_\_\_      \_\_\_\_\_
10. \_\_\_\_\_      \_\_\_\_\_
11. \_\_\_\_\_      \_\_\_\_\_
12. \_\_\_\_\_      \_\_\_\_\_
13. \_\_\_\_\_      \_\_\_\_\_
14. \_\_\_\_\_      \_\_\_\_\_
15. \_\_\_\_\_      \_\_\_\_\_



Find the ratio and unit rate for each problem.

- |     |                                      |               |           |                        |
|-----|--------------------------------------|---------------|-----------|------------------------|
| Ex) | 16 copies in 2 minutes               | <u>16:2</u>   | <u>8</u>  | copies per minute      |
| 1)  | 6 bags with 216 cans                 | <u>216:6</u>  | <u>36</u> | cans per bag           |
| 2)  | 2 movie tickets cost \$30            | <u>30:2</u>   | <u>15</u> | dollars per ticket     |
| 3)  | 18 centimeters of snow in 2 hours    | <u>18:2</u>   | <u>9</u>  | centimeters per hour   |
| 4)  | 6 mail trucks had 60 bags of letters | <u>60:6</u>   | <u>10</u> | bags per truck         |
| 5)  | 9 boxes can hold 45 books            | <u>45:9</u>   | <u>5</u>  | books per box          |
| 6)  | 3 hours to drive 189 miles           | <u>189:3</u>  | <u>63</u> | miles per hour         |
| 7)  | 48 CDs with 432 songs                | <u>432:48</u> | <u>9</u>  | songs per CD           |
| 8)  | 35 shirts for 105 dollars            | <u>105:35</u> | <u>3</u>  | dollars per shirt      |
| 9)  | 8 trays with 56 ice cubes            | <u>56:8</u>   | <u>7</u>  | ice cubes per tray     |
| 10) | 9 game controllers had 90 buttons    | <u>90:9</u>   | <u>10</u> | buttons per controller |
| 11) | 2 tanks with 98 fish                 | <u>98:2</u>   | <u>49</u> | fish per tank          |
| 12) | 28 pints of juice in 4 containers    | <u>28:4</u>   | <u>7</u>  | pints per container    |
| 13) | 189 cherry pieces in 7 bags of candy | <u>189:7</u>  | <u>27</u> | pieces per bag         |
| 14) | 105 dollars for 35 TV channels       | <u>105:35</u> | <u>3</u>  | dollars per channel    |
| 15) | 99 customers over 3 days             | <u>99:3</u>   | <u>33</u> | customers per day      |

Answers

- |     |               |           |
|-----|---------------|-----------|
| Ex. | <u>16:2</u>   | <u>8</u>  |
| 1.  | <u>216:6</u>  | <u>36</u> |
| 2.  | <u>30:2</u>   | <u>15</u> |
| 3.  | <u>18:2</u>   | <u>9</u>  |
| 4.  | <u>60:6</u>   | <u>10</u> |
| 5.  | <u>45:9</u>   | <u>5</u>  |
| 6.  | <u>189:3</u>  | <u>63</u> |
| 7.  | <u>432:48</u> | <u>9</u>  |
| 8.  | <u>105:35</u> | <u>3</u>  |
| 9.  | <u>56:8</u>   | <u>7</u>  |
| 10. | <u>90:9</u>   | <u>10</u> |
| 11. | <u>98:2</u>   | <u>49</u> |
| 12. | <u>28:4</u>   | <u>7</u>  |
| 13. | <u>189:7</u>  | <u>27</u> |
| 14. | <u>105:35</u> | <u>3</u>  |
| 15. | <u>99:3</u>   | <u>33</u> |