

Ratio - Two Quantities

Sheet 1

- 1) A new born baby has 270 bones and an adult has 206 bones. Find the ratio of bones in an adult to that of a new born baby?

- 2) Kim receives 120 official e-mails on Monday morning. She responds to 60 e-mails. What is the ratio of e-mails that Kim received to the mails that she answered?

- 3) A boutique sold 72 designer outfits and 24 pieces of jewelry over the Christmas weekend. Find the ratio of the number of outfits sold to the pieces of jewelry sold?

- 4) There are 26 letters in the English language and 24 in Korean. What is the ratio of letters in the Korean language to the letters in the English language?

- 5) The Earth takes 24 hours to rotate around its own axis and the moon takes 27 days. What is the ratio of the time taken by the moon to the time taken by the Earth to rotate around their respective axes? (Hint: Convert hours to days)

Answer key**Ratio - Two Quantities**

Sheet 1

- 1) A new born baby has 270 bones and an adult has 206 bones. Find the ratio of bones in an adult to that of a new born baby?

206 : 270 or 103 : 135

- 2) Kim receives 120 official e-mails on Monday morning. She responds to 60 e-mails. What is the ratio of e-mails that Kim received to the mails that she answered?

120 : 60 or 2 : 1

- 3) A boutique sold 72 designer outfits and 24 pieces of jewelry over the Christmas weekend. Find the ratio of the number of outfits sold to the pieces of jewelry sold?

72 : 24 or 3 : 1

- 4) There are 26 letters in the English language and 24 in Korean. What is the ratio of letters in the Korean language to the letters in the English language?

24 : 26 or 12 : 13

- 5) The Earth takes 24 hours to rotate around its own axis and the moon takes 27 days. What is the ratio of the time taken by the moon to the time taken by the Earth to rotate around their respective axes? (Hint: Convert hours to days)

27 : 1

Ratio - Two Quantities

Sheet 2

- 1) Harry reads 32 pages of a 52-page comic book before he falls asleep. What is the ratio of the pages that Harry read to the pages that remain to be read?

- 2) An electric pole is 16 m tall and it casts a shadow that is 24 m long. What is the ratio of the height of the electric pole to the length of the shadow cast by it?

- 3) Ben and Jude share some sweets in the ratio 3:5. Ben gets 12 sweets. How many sweets does Jude get? Find the ratio of the sweets that Ben gets to the sweets that Jude gets.

- 4) Light travels at a speed of 180,000 mi/s in air and a speed of 120,000 mi/s in glass. Compare the speed of light in air to the speed in glass.

- 5) Duralumin, an alloy consists of 94% aluminium, 4% copper and 1% magnesium. What is the ratio of copper to aluminium in Duralumin?

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Answer key**Ratio - Two Quantities**

Sheet 2

- 1) Harry reads 32 pages of a 52-page comic book before he falls asleep. What is the ratio of the pages that Harry read to the pages that remain to be read?

32 : 20 or 8 : 5

- 2) An electric pole is 16 m tall and it casts a shadow that is 24 m long. What is the ratio of the height of the electric pole to the length of the shadow cast by it?

16 : 24

- 3) Ben and Jude share 44 sweets in the ratio of 4 : 3. How many sweets does each get? Find the ratio of the sweets that Ben gets to the sweets that Jude gets.

44 : 36

- 4) Light travels at a speed of 186,200 miles per second in a vacuum. The speed of light in glass is 120,000 miles per second. Compare the speed of light in a vacuum to the speed of light in glass.

186200 : 120000

- 5) Duralumin, an alloy consists of 94% aluminium, 4% copper and 1% magnesium. What is the ratio of copper to aluminium in Duralumin?

4 : 94 or 2 : 47

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Ratio - Two Quantities

Sheet 3

- 1) Siberian tigers can weigh up to 800 lbs while African lions can weigh up to 550 lbs. Compare the ratio of the weight of a Siberian tiger to that of an African lion.

- 2) Typically, children have 20 milk teeth and adults have 32 permanent teeth. What is the ratio of permanent teeth to milk teeth?

- 3) An equilateral triangle has three equal sides and three equal angles. Find the ratio of the length of one side to the perimeter.

- 4) A specific quantity of salt is added to a solution. The same quantity of salt is added to another solution. Compare the concentration of salt in the two solutions. Make a concept map.

- 5) The continent of North America covers an area of 24 million square kilometers and South America has a total area of 18 million square kilometers. Compare the ratio of the geographical areas of North America to South America.

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Answer key**Ratio - Two Quantities**

Sheet 3

- 1) Siberian tigers can weigh up to 800 lbs while African lions can weigh up to 550 lbs. Compare the ratio of the weight of a Siberian tiger to that of an African lion.

800 : 550 or 16 : 11

- 2) Typically, children have 20 milk teeth and adults have 32 permanent teeth. What is the ratio of permanent teeth to milk teeth?

32 : 20

- 3) An equilateral triangle has all three sides of equal length and all three interior angles are equal. Find the ratio of the length of one side to the perimeter of the triangle.

60 : 60

- 4) A specific quantity of salt is added to a solution. The same quantity of salt is added to another solution. Compare the amount of salt added to the total amount of salt in each solution. Make a concept map.

56 : 92

- 5) The continent of North America covers an area of 24 million square kilometers and South America has a total area of 18 million square kilometers. Compare the ratio of the geographical areas of North America to South America.

24 : 18 or 4 : 3

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