| Name: | Section 4.1 Rates and Ratios | Date: |
|---|--|--|
| 1. Given the following images, | find the ratios of the following. Write | e in lowest terms: |
| <u>@</u> @ | 000 *** | ** |
| <u></u> | | *** |
| a) 🙂 : 🖤 | _{b)} | c) ★: 👽 |
| 8:10 | 8:6 | (- 11) |
| 4:5) | 4;3 | (1:3) |
| d)What comparisons will have a | e) What comparisons will have a | f) What comparisons will have a |
| ratio of 7:5? | ratio of 1:2? | ratio of 1:4? |
| $\bigcirc \otimes : \bigcirc \longleftarrow \bigcirc$ | | # # OV = |
| (4:10 | | 6 - 29 |
| 2. Find the missing value in ea | ch proportion. Please show all your w | ork and steps: |
| , 3 [2 | b 3 | T 3 T = 3 |
| a) $\frac{3}{5} = \frac{2}{20}$ | 15 | c) 40 10 40 10 |
| | 45 = 9x(s) | Tox_= Iso |
| ν 4 | <u>45</u> = S | T=12 |
| | 9=3 | |
| 1) 0:4 40 : | 5-5 | f) 14 . 70 . CF |
| d) 8:4 = 40 : | e) : 42 = 12 : 6 | f) 14 : = 70: 65 |
| | $\frac{1}{1} = \frac{12}{1}$ | 65 |
| | 42 6 K | 25 |
| | X7 = 7x12=84/1. | <u>[]=13.</u> |
| _, 12 | h) $\frac{9}{4} = \frac{27}{1}$ | $\frac{48}{100} = \frac{3}{100}$ |
| g) $\frac{12}{18} = {3}$ | 4 | $i) \frac{48}{\Box} = \frac{3}{6}$ |
| | | |
| | | |
| | ∀ ₩ | L) $\frac{18}{12} = \frac{4}{12}$ $= \cancel{\cancel{2}} \times \cancel{\cancel{4}}$ $= \cancel{\cancel{8}} \times \cancel{\cancel{4}}$ $= \cancel{\cancel{8}} \times \cancel{\cancel{8}} \times \cancel{\cancel{8}} \times \cancel{\cancel{8}} \times \cancel{\cancel{8}} = \cancel{\cancel{8}} \times \cancel{\cancel{8}} \times \cancel{\cancel{8}} = \cancel{\cancel{8}} = \cancel{\cancel{8}} \times \cancel{\cancel{8}} = \cancel{\cancel{8}} = \cancel{\cancel{8}} \times \cancel{\cancel{8}} = $ |
| 24 3 | 15 15 | 18 4 5 2 |
| j) $\frac{24}{1} = \frac{3}{7}$ | k) $\frac{45}{6} = \frac{15}{15}$ $\frac{15}{15}$ $\frac{15}{15}$ $\frac{15}{15}$ $\frac{15}{15}$ $\frac{225}{15}$ | $ L \frac{10}{12} = \frac{4}{12} L = 12 \times \frac{4}{12}$ |
| | k) $\frac{45}{6} = \frac{15}{15}$ $= \frac{15}{15} \times $ | - E - S - S - S - S - S - S - S - S - S |
| | X 12 | ↑ TO U 3_ |

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3. John makes \$7.25 per hour at work. If he works 17 hours a week, how much will he earn?

\$ EARN = 7.25 x 17 = \$123.25

4. A class has 24 boys and 32 girls, what is the ratio of boys to girls? What is the ratio of boys to girls to the number of students in the class?

B. G 24:32 B. 4

5. The ratio of dog owners to cat owners is 4:3. If 320 people in a city own dogs, how many people own cats?

Dec CAT = xxx (4:3) xxx

- 6. At the Winter Olympics, the ratio of Canadian medals to US to Russia was 1:8:5. If Russia won 25 medals, how many did Canada and US won?
- 7. The ratio of the length to the width of the Canadian Flag is 2:1. What is the width of a 75cm long Canadian flag?
- 8. What is the difference between rates and ratios? Explain using your own words:

RATES: COMPARING 2 QUANTITIES WITH DIFFERENT UNITS

There are 45 harbles in a bag (black and white only). The ratio of white marbles to black marbles is 2:3.

How many of each are there?

3 B 27 BHCK

10. The ratio of boys to girls in a party is 6:5. Then 8 boys leave the party and the ratio of boys to girls is now 4:5. How many boys and girls are there now?

