

1. 95

2. We want the ratio of (fractional part of sum) : (sum of fractional parts).

So first let's find the sum of $2\frac{2}{3}$, $3\frac{3}{4}$, and $4\frac{4}{5}$. I assume you can add fractions, and your sum should be $11\frac{13}{60}$. The fractional part of the sum is $\frac{13}{60}$.

Now let's find the fractional parts of $2\frac{2}{3}$, $3\frac{3}{4}$, and $4\frac{4}{5}$: $\frac{2}{3}$, $\frac{3}{4}$, and $\frac{4}{5}$. Now we add the fractional parts, and our sum is $\frac{133}{60}$.

Now we will calculate our ratio. We have found $\frac{13}{60} : \frac{133}{60}$. We reduce by multiplying both sides by 60, and we get 13 : 133

3. Let's make a schedule of people coming in and out of the ward based on the rules given in the problem:

Date	Number of people
Monday	9
Tuesday	$9 + 2 - 1 = 10$
Wednesday	$10 + 2 - 1 = 11$
Thursday	$11 + 2 - 1 = 12$
Friday	$12 + 2 - 1 = 13$
Saturday	$13 + 2 = 15$
Sunday	$15 + 2 = 17$
Monday	$17 + 2 - 1 = 18$
Thursday	$18 + 2 - 1 = 19$

So there are 19 in the ward on the following Tuesday.

4. Dealer cost is the price that the car seller bought the car for. Then he marks the price up by 5% and sells it. Let the dealer cost be p . Then the dealer cost plus 5% is $p + .05p = 1.05p$. This price is equal to \$17,325. So we set the two equal to each other: $1.05p = 17,325$, divide both sides by 1.05, and we get $p = 16500$. Therefore the dealer bought the car for \$16,500

5. six dozen dozen = $6 \times 12 \times 12 = 864$. a half-dozen dozen = $\frac{12}{2} \times 12 = 6 \times 12 = 72$. Their difference is $864 - 72 =$ 792

6. 2

7. Studs are vertical pieces of wood that are used to hold up walls in buildings. A "two-by-four" stud is one that is 4 inches wide and 2 inches thick. The distances between their centers is 16 inches. If a wall is 48 feet wide, it is $48 \times 12 = 576$ inches. If we place a stud every 16 inches, then we need $576 \div 16 =$ 36 studs.

8. 4 years

9. $\frac{40}{81}$



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10. Scientific notation is when you have a number with a lot of zeros and you want to write it in a shorter way. If we perform the division $\frac{6250}{0.0002}$, we get 31,250,000. Too many zeros! So we move the decimal place until there is only one number in front of the decimal place. We move the decimal 7 places so we get 3.125, so we write $\boxed{3.125 \times 10^7}$.