1) Answer: A

Explanation: To reduce $\frac{27}{81}$ to lowest terms, we need to divide both the numerator and the denominator by their [Greatest Common Factor (GCF)](). The GCF of 27 and 81 is 27. Therefore, we divide both the numerator and the denominator by 27.

$$\frac{27 \div 27}{81 \div 27} = \frac{1}{3}$$

Hence, the answer is ⅓ .

2) Answer: C

Explanation: Let us transform $4\frac{2}{3}$ to improper fraction form:

Step 1: *Multiply the denominator of the mixed number by the whole number part then add the product to the numerator. The resulting number is the numerator of the improper fraction*

$$3 \times 4 = 12 + 2 = 14$$

Thus, we will use 14 as the numerator of the improper fraction.

Step 2: *Copy the denominator of the proper fraction of the mixed number and use it as the denominator of the improper fraction*

The denominator of the proper fraction of the mixed number is 3. Hence, we will also use 3 as the denominator of our improper fraction.

Therefore, we now have $\frac{14}{3}$

Step 3: *Reduce the obtained fraction to its lowest terms, if possible.*

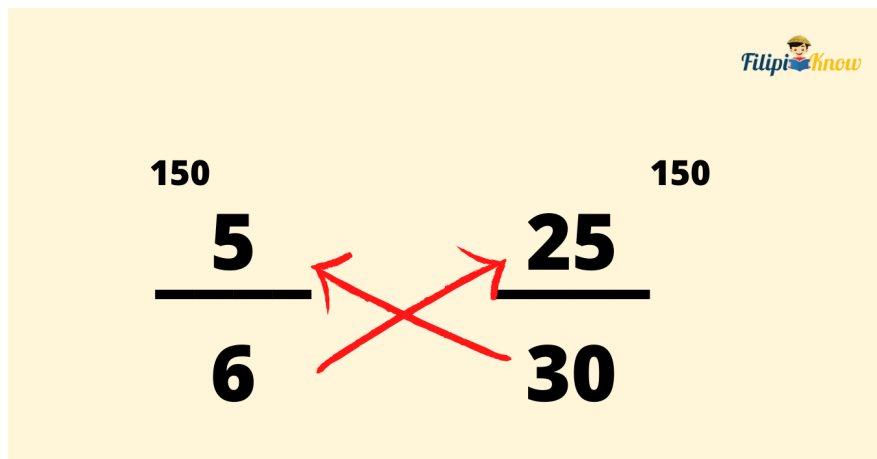The fraction $\frac{14}{3}$ is in its lowest terms. Thus, there is no need to simplify it further.

Therefore, the answer is $\frac{14}{3}$.

3) Answer: B

   Explanation: The hundredths place is the second digit at the right of the decimal point. In 0.43201, the second digit at the right of the decimal point is 3. Hence, 3 is the digit which is in the hundredths place.

4) Answer: D

   Explanation: We can verify using the cross multiplication method that $\frac{25}{30}$ is equivalent to $\frac{5}{6}$.

5) Answer: A

   Explanation: To convert a decimal number into fraction:

Step 1: *Use the numbers on the right of the decimal point as the numerator of the fraction. Do not write the zeros on the left of any nonzero digit.*

The number on the right of the decimal point is 12. Thus, we will use it as the numerator of the fraction. Thus, we have $\dfrac{12}{}$

Step 2: *If there is one digit on the right of the decimal point, use 10 as the denominator. If there are two digits on the right of the decimal point, use 100 as the denominator. If there are three digits on the right of the decimal point, use 1000 as the denominator and so on.*

There are 2 digits on the right of the decimal point. Hence, we will use 100 as the denominator. Hence, we have $\dfrac{12}{100}$

Step 3: *Reduce the fraction you have obtained from Steps 1 and Step 2 into its lowest terms.*

We can still reduce $\dfrac{12}{100}$ into its lowest terms by dividing both the numerator and the denominator by their GCF. The GCF of 12 and 100 is 4. Thus, we divide both the numerator and the denominator by 4.

$$\frac{12 \div 4}{100 \div 4} \;=\; \frac{3}{25}$$

Therefore, the answer is $\dfrac{3}{25}$.