

To write  $7 \frac{2}{3}$  as a decimal, we need to convert the mixed number into a decimal form. Let's break it down step by step:

1. **Understand the Parts:** In  $7 \frac{2}{3}$ , the whole number is 7, and the fraction is  $\frac{2}{3}$ .
2. **Convert Fraction to Decimal:** To convert the fraction  $\frac{2}{3}$  to a decimal, divide the numerator (2) by the denominator (3). This gives us  $0.666\dots$  (repeating).
3. **Add the Whole Number:** Now, add the whole number (7) to the decimal we got in the previous step. So,  $7 + 0.666\dots = 7.666\dots$
4. **Round off:** Since we need a finite decimal, we can round the repeating decimal  $0.666\dots$  to  $0.67$ .
5. **Final Answer:** Therefore,  $7 \frac{2}{3}$  as a decimal is  $7.67$ .