27. $\dfrac{5}{12} + \dfrac{1}{16}$

① $\dfrac{5 \cdot 4}{48} + \dfrac{1 \cdot 3}{48}$

$\dfrac{20}{48} + \dfrac{3}{48}$

② $\boxed{\dfrac{23}{48}}$

$12 = 2 \cdot 2 \cdot 3$
$16 = 2 \cdot 2 \cdot 2 \cdot 2$
$LCD = 2 \cdot 2 \cdot 2 \cdot 2 \cdot 3$
$= 48$

28.

$\dfrac{7}{10} + \dfrac{3}{25}$

① $\dfrac{7 \cdot 5}{50} + \dfrac{3 \cdot 2}{50}$

$\dfrac{35}{50} + \dfrac{6}{50}$

② $\boxed{\dfrac{41}{50}}$

LCD
$10 = 2 \cdot 5$
$25 = 5 \cdot 5$
$LCD = 2 \cdot 5 \cdot 5$
$= 50$

29. $\dfrac{1}{16} + \dfrac{1}{36}$

① $\dfrac{1 \cdot 9}{144} + \dfrac{1 \cdot 4}{144}$

$\dfrac{9}{144} + \dfrac{4}{144}$

② $\boxed{\dfrac{13}{144}}$

LCD
$16 = 2 \cdot 2 \cdot 2 \cdot 2$
$36 = 2 \cdot 2 \cdot 3 \cdot 3$
$LCD = 2 \cdot 2 \cdot 2 \cdot 2 \cdot 3 \cdot 3$
$= 16 \cdot 9$
$= 144$

30. $\dfrac{1}{5} + \dfrac{1}{3} + \dfrac{1}{4}$

① $\dfrac{1 \cdot 12}{60} + \dfrac{1 \cdot 20}{60} + \dfrac{1 \cdot 15}{60}$

$\dfrac{12}{60} + \dfrac{20}{60} + \dfrac{15}{60}$

② $\boxed{\dfrac{47}{60}}$

LCD
$5 = 5$
$3 = 3$
$4 = 2 \cdot 2$
$LCD = 2 \cdot 2 \cdot 3 \cdot 5$
$= 60$