



Example

- a) Find an equivalent fraction to $\frac{5}{8}$.
- b) Convert $4\frac{3}{7}$ to an improper fraction.
- c) Convert $\frac{29}{6}$ to a mixed number.



- a) To find an equivalent fraction to $\frac{5}{8}$ we need to multiply the numerator and denominator by the same number. We can choose any number.
Possible solutions are: $\frac{10}{16}, \frac{15}{24}, \frac{20}{32}, \frac{25}{40}$ etc.

- b) To convert $4\frac{3}{7}$ to an improper fraction we first convert the whole number 4 into sevenths, (by multiplying 4 by 7) and then add the three-sevenths.
So $\frac{28}{7} + \frac{3}{7} = \frac{31}{7}$.

- c) To convert $\frac{29}{6}$ to a mixed number we divide 29 by 6 and put the remainder over the original denominator i.e. 6.
So $\frac{29}{6} = 29 \div 6$
 $= 4\frac{5}{6}$



Achievement – Fill in the missing boxes to make the fractions equivalent.

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|--|---|
| 261. $\frac{4}{11} = \frac{\boxed{8}}{\boxed{}}$ | 262. $\frac{2}{3} = \frac{\boxed{6}}{\boxed{}}$ |
| 263. $\frac{5}{9} = \frac{\boxed{}}{\boxed{36}}$ | 264. $\frac{11}{12} = \frac{\boxed{77}}{\boxed{}}$ |
| 265. $\frac{14}{24} = \frac{\boxed{}}{\boxed{12}}$ | 266. $\frac{35}{50} = \frac{\boxed{7}}{\boxed{}}$ |
| 267. $\frac{28}{20} = \frac{\boxed{7}}{\boxed{}}$ | 268. $\frac{60}{55} = \frac{\boxed{}}{\boxed{11}}$ |
| 269. $\frac{13}{14} = \frac{\boxed{}}{\boxed{84}}$ | 270. $\frac{19}{25} = \frac{\boxed{133}}{\boxed{}}$ |

- 271. Parv earns \$85 per week and pays \$15 in tax.
 - a) What fraction of her earnings does Taylor pay in tax?

 - b) Give an equivalent simplified fraction for your answer in part a).

- 272. In a box of 90 light bulbs 12 are found to be faulty.
 - a) What fraction of the light bulbs are faulty?

 - b) Give an equivalent simplified fraction for your answer in part a).



Achievement – Convert the following mixed numbers to improper fractions and any improper fractions to mixed numbers.

273. $\frac{95}{8}$

274. $\frac{23}{7}$

275. $\frac{13}{4}$

276. $\frac{49}{9}$

277. $\frac{53}{12}$

278. $\frac{26}{9}$

279. $\frac{88}{12}$

280. $\frac{19}{18}$

281. $\frac{45}{4}$

282. $\frac{111}{9}$

283. $\frac{68}{14}$

284. $\frac{112}{13}$

285. $3\frac{2}{7}$

286. $1\frac{1}{6}$

287. $10\frac{10}{13}$

288. $3\frac{1}{2}$

289. $2\frac{4}{5}$

290. $1\frac{1}{3}$

291. $2\frac{3}{8}$

292. $1\frac{11}{12}$

293. $4\frac{3}{4}$

294. $2\frac{11}{15}$

295. $3\frac{8}{13}$

296. $6\frac{9}{11}$

297. Seven pizzas are divided evenly among three friends. What fraction of pizza does each friend get? Write your answer as a mixed number.

298. 128 bars of chocolate are to be divided between 5 families. What fraction of the chocolate bars does each family get? Write your answer as a mixed number.

299. The first XI scored a total of 548 runs in three one day cricket matches. How many runs did they score on average for each match. Write your answer as a mixed number

300. A basketball team comprising five members scores 68 points in a game. On average how many points did each player score? Write your answer as a mixed numeral.
