Achievement – Evaluate the following using your calculator. Do each problem twice, as a check, to reduce the likelihood of 'key in' error.

342. $\dfrac{2}{7} \times \dfrac{3}{5} =$

343. $\dfrac{5}{6} \times \dfrac{8}{9} =$

344. $\dfrac{3}{4} \div \dfrac{2}{9} =$

345. $\dfrac{5}{11} \div \dfrac{4}{7} =$

346. $1\dfrac{3}{4} \times \dfrac{7}{8} =$

347. $\dfrac{5}{6} \times 2\dfrac{2}{3} =$

348. $3\dfrac{1}{2} \div \dfrac{5}{8} =$

349. $\dfrac{5}{9} \div 2\dfrac{10}{11} =$

350. $4\dfrac{1}{5} \times 4\dfrac{2}{3} =$

351. $3\dfrac{2}{9} \times 2\dfrac{1}{3} =$

Achievement – Evaluate the following using your calculator. Do each problem twice, as a check, to reduce the likelihood of 'key in' error.

352. $\dfrac{2}{5} \div \dfrac{1}{4} \div \dfrac{2}{3} =$

353. $1\dfrac{1}{7} \div 2\dfrac{1}{3} \div 1\dfrac{3}{4} =$

354. $\dfrac{2}{3} \times \dfrac{3}{4} \times \dfrac{4}{5} =$

355. $1\dfrac{1}{3} \times 2\dfrac{1}{5} \times 2\dfrac{2}{7} =$

356. $2\dfrac{2}{3} \div 1\dfrac{1}{4} \div 2\dfrac{5}{7} =$

357. $2\dfrac{1}{8} \times 1\dfrac{1}{2} \times 1\dfrac{2}{3} =$

Merit – Answer the following application problems, showing a line of working to indicate the calculation you are doing.

358. A recipe calls for $\frac{1}{3}$ of a cup of white flour. If a person wishes to halve the recipe how much flour will they now require?

359. If $\frac{4}{7}$ of Year 11 girls at a school play netball and $\frac{2}{5}$ of these also play hockey, what fraction play hockey?

360. A painter uses $15\frac{1}{2}$ litres of paint on four walls of a shed. What fraction of the paint, in litres, is used on a single wall?

361. $1\frac{1}{2}$ m lengths of wire are cut from a roll comprising $35\frac{3}{4}$ m. How many lengths can be cut and what amount is left over?

362. Tessa buys $12\frac{3}{8}$ m of fabric for costumes for a school concert. Each costume requires $2\frac{1}{5}$ m. How much fabric will she have left over?

363. A farmer uses $\frac{2}{7}$ of his land for growing corn and $\frac{4}{5}$ of the remaining area to grow potatoes. What area of his farm is used to grow potatoes?

364. Jane was left $\frac{3}{8}$ of an estate, while her brother received $1\frac{1}{4}$ more than the Jane. What fraction did the brother receive and what fraction of the estate remained undivided?

365. Chang was the leading scorer in his basketball team, scoring $\frac{4}{7}$ of the season's points. His friend scored $\frac{3}{5}$ of what Chang scored. If during the season the team scored 455 points how many did the friend score?

Fractions (x, ÷) – Solve problems involving fractions.

Examples

a) Calculate $1\dfrac{3}{4} \times 2\dfrac{1}{2}$

b) Calculate $1\dfrac{1}{5} \div \dfrac{3}{8}$

On a calculator we enter

a) [1] [a b/c] [3] [a b/c] [4] [x] [2]

[a b/c] [1] [a b/c] [2] [=] which gives $4\dfrac{3}{8}$.

b) [1] [a b/c] [1] [a b/c] [5] [÷] [3]

[a b/c] [8] [=] which gives $3\dfrac{1}{5}$.

Problems

Evaluate the following using your calculator.

1. $\dfrac{2}{5} \times \dfrac{3}{5}$ = _____

2. $\dfrac{4}{5} \times \dfrac{3}{8}$ = _____

3. $3\dfrac{1}{7} \times 2\dfrac{1}{3}$ = _____

4. $\dfrac{3}{11} \times 1\dfrac{5}{7}$ = _____

5. $1\dfrac{2}{3} \times \dfrac{3}{8} \times \dfrac{1}{5}$ = _____

6. $\dfrac{4}{9} \div \dfrac{3}{5}$ = _____

7. $\dfrac{3}{7} \div \dfrac{2}{7}$ = _____

8. $3\dfrac{1}{2} \div \dfrac{2}{3}$ = _____

9. $2\dfrac{2}{3} \div 3\dfrac{1}{2}$ = _____

10. $3\dfrac{1}{4} \div \dfrac{2}{5} \div \dfrac{3}{4}$ = _____

Application Problems

Answer the following questions.

11. A mountain bike is for sale at $460.
A deposit of $\dfrac{1}{4}$ is required to put it on hire purchase. How much is the deposit?

_____

_____

12. Two-thirds of a chocolate cake is left in a tin. If it is to be divided among 4 people, what fraction does each get of the original cake?

_____

_____

13. Two pizzas are left over from tea. If Damon eats $\dfrac{1}{3}$ of them and Alec $\dfrac{2}{5}$, what fraction of the pizzas are still remaining?

_____

_____

14. Omar and his two friends ate a pizza for dinner. Omar ate first and had one-third of the pizza. Tane had three-quarters of the remaining pizza and Anne ate the rest. What fraction of the whole pizza did Omar, Tane and Anne each have?

_____

_____

_____