

5-6 小數除法

※學習地位分析



溫故知新

一、答案請使用分數表示

(1) $5 \div 8 =$

(2) $7 \div 11 =$

二、用直式算算看：

(1) $48 \div 4 =$

(2) $162 \div 3 =$

(3) $52 \div 13 =$

(4) $132 \div 11 =$

(5) $360 \div 24 =$

(6) $416 \div 52 =$

5-6-1 整數、小數除以整數

教學活動 1 (整數除以整數，商為一位小數)

2 片披薩平分給 4 個人，全部分完，每個人分得幾片披薩，用小數怎麼表示？

【概念講解】

- ◆ 2 片披薩平分給 4 個人，用 $2 \div 4$ 來計算。
- ◆ 用直式算算看：

$$\begin{array}{r} 0. \\ 4 \overline{)2} \\ \underline{0} \\ 2 \end{array}$$

1 個人分不到 1 片披薩，在個位記上 0，並加上小數點。

$$\begin{array}{r} 0. \\ 4 \overline{)2.0} \\ \underline{0} \\ 20 \end{array}$$

將 2 個 1 換成 20 個 0.1。

$$\begin{array}{r} 0.5 \\ 4 \overline{)2.0} \\ \underline{0} \\ 20 \\ \underline{20} \\ 0 \end{array}$$

20 個 0.1 片披薩，分給 4 個人，每個人分到 5 個 0.1 片，在十分位記上 5。

答：0.5 片

【計算題】用直式算算看：

(1) $3 \div 2$

(2) $1 \div 5$

(3) $13 \div 5$

(4) $14 \div 4$

【重新佈題】

阿華把 7 公斤的砂糖，平均裝到 5 個罐子裡，每罐是幾公斤？

教學活動 2 (整數除以整數，商為二位小數)

用 38 公尺的彩帶，圍成 1 個正八邊形，每個邊長是幾公尺？

【概念講解】

◆ 正八邊形有 8 個等長的邊，用 38 公尺圍成正八邊形，每個邊的邊長用 $38 \div 8$ 來計算。

◆ 用直式算算看：

| | | |
|--|---|--|
| $\begin{array}{r} \text{十 個} \\ \text{位 位} \\ 4. \\ 8 \overline{)38} \\ \underline{32} \\ 6 \end{array}$ | $\begin{array}{r} \text{十 個 分} \\ \text{位 位 位} \\ 4.7 \\ 8 \overline{)38} \\ \underline{32} \\ 60 \\ \underline{56} \\ 4 \end{array}$ | $\begin{array}{r} \text{十 百} \\ \text{位 位 位 位} \\ 4.75 \\ 8 \overline{)38} \\ \underline{32} \\ 60 \\ \underline{56} \\ 40 \\ \underline{40} \\ 0 \end{array}$ |
|--|---|--|

$38 \div 8 = 4 \cdots 6$ ，
38 公尺分成 8 個邊，每個邊 4 公尺，還剩下 6 個 1 公尺，在個位記 4，並加上小數點。

6 個 1 換成 60 個 0.1。
 $60 \div 8 = 7 \cdots 4$ ，
在十分位記 7。

4 個 0.1，換成 40 個 0.01。
 $40 \div 8 = 5$ ，在百分位記 5。

答：4.75 公尺

【計算題】用直式算算看：

(1) $17 \div 4$

(2) $23 \div 4$

(3) $30 \div 8$

(4) $6 \div 8$

【重新佈題】

緞帶長 9 公尺，平分剪成 4 條，每條緞帶長幾尺？

小叮嚀：

◆ 除法計算到個位結束後，若要繼續計算，要記得加上小數點。



教學活動 3 (整數除以整數，商為三位小數)

果醬 8 箱重 73 公斤，請問平均 1 箱果醬重幾公斤？

【概念講解】

- ◆ 8 箱重 73 公斤，每箱的重量用 $73 \div 8$ 來計算。
- ◆ 用直式算算看：

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$73 \div 8 = 9 \cdots 1$ ，
在個位記上 9，
還剩下 1 個 1。

1 個 1 換成 10
個 0.1。
 $10 \div 8 = 1 \cdots 2$ ，
在十分位記 1。

2 個 0.1 換成 20
個 0.01。
 $20 \div 8 = 2 \cdots 4$ ，
在百分位記 2。

4 個 0.01 換成
40 個 0.001。
 $40 \div 8 = 5$ ，
在千分位記
5。

答：9.125 公斤

【計算題】用直式算算看：

(1) $34 \div 16$

(2) $57 \div 8$

(3) $14 \div 16$

(4) $55 \div 8$

【重新佈題】

老師將 27 公斤綠豆平分成 8 包，每包有多少公斤？

教學活動 4 (一位小數除以一位整數)

將 0.9 公升的優酪乳平分給 3 人，每個人可以得到幾公升的優酪乳？

【概念講解】

- ◆ 0.9 公升的優酪乳瓶平分給 3 人，每人分到的優酪乳用 $0.9 \div 3$ 來計算。
- ◆ 用直式算算看：

$$\begin{array}{r} \text{十} \\ \text{個分} \\ \text{位位} \\ 0. \\ \hline 3 \overline{)0.9} \end{array}$$

0.9 公升分給 3 個人， $0 \div 3 = 0$ ，在個位記 0。

$$\begin{array}{r} \text{十} \\ \text{個分} \\ \text{位位} \\ 0.3 \\ \hline 3 \overline{)0.9} \\ \underline{9} \\ 0 \end{array}$$

9 個 0.1 除以 3。
 $9 \div 3 = 3$ ，在十分位記 3。

答：0.3 公升

【計算題】用直式算算看：

(1) $3.8 \div 2$

(2) $6.5 \div 5$

(3) $142.2 \div 6$

(4) $81.6 \div 8$

【重新佈題】

30. 4 公升的牛奶平分給 4 人，每個人可以得到幾公升的牛奶？

教學活動 5 (二位小數除以一位整數)

某長方形的長是 8 公尺，面積是 8.48 平方公尺，求長方形的寬是多少公尺？

【概念講解】

- ◆ 長方形的面積 = 長 × 寬，要求出長方形的寬，用面積除以長來計算，算式寫成 $8.48 \div 8$ 。
- ◆ 用直式算算看：

| | | | |
|---|----|------|---|
| | 十 | 百 | |
| | 個 | 分 | 分 |
| | 位 | 位 | 位 |
| | 1. | | |
| 8 |) | 8.48 | |
| | | 8 | |
| | | — | |

先算個位，
 $8 \div 8 = 1$ ，
在個位記
1。

| | | | |
|---|-----|------|---|
| | 十 | 百 | |
| | 個 | 分 | 分 |
| | 位 | 位 | 位 |
| | 1.0 | | |
| 8 |) | 8.48 | |
| | | 8 | |
| | | — | |
| | | 4 | |
| | | — | |
| | | 0 | |
| | | — | |
| | | 4 | |

4 個 0.1 繼續
算。
 $4 \div 8 = 0 \cdots 4$ ，在
十分位記 0。

| | | | |
|---|------|------|---|
| | 十 | 百 | |
| | 個 | 分 | 分 |
| | 位 | 位 | 位 |
| | 1.06 | | |
| 8 |) | 8.48 | |
| | | 8 | |
| | | — | |
| | | 4 | |
| | | — | |
| | | 0 | |
| | | — | |
| | | 48 | |
| | | — | |
| | | 48 | |
| | | — | |
| | | 0 | |

4 個 0.1 和 8 個 0.01 合起來是
48 個 0.01。
 $48 \div 8 = 6$ ，在百分位記 6。

答：1.06 公尺

【計算題】用直式算算看：

(1) $0.24 \div 2$

(2) $3.24 \div 2$

(3) $1.68 \div 4$

(4) $1.25 \div 5$

【重新佈題】

有一段路長 6.84 公里，爸爸開車行駛需要 6 分鐘，平均 1 分鐘行駛多少公里？

教學活動 6 (分數換成小數)

將除法算式的答案，用分數和小數表示：

(1) $11 \div 4 = (\quad)$

(2) $6 \div 8 = (\quad)$

【概念講解】

◆ 用分數表示： $11 \div 4 = \frac{11}{4} = 2\frac{3}{4}$

用小數表示： $11 \div 4 = 2.75$

$$\begin{array}{r} 4.75 \\ 4 \overline{)11} \\ \underline{8} \\ 30 \\ \underline{28} \\ 20 \\ \underline{20} \\ 0 \end{array}$$

◆ 用分數表示： $6 \div 8 = \frac{6}{8}$

用小數表示： $6 \div 8 = 0.75$

$$\begin{array}{r} 0.75 \\ 8 \overline{)6.0} \\ \underline{56} \\ 40 \\ \underline{40} \\ 0 \end{array}$$

【重新佈題】將分數換成小數：

(1) $\frac{11}{5} =$ () (2) $\frac{7}{4} =$ ()

(3) $\frac{4}{5} =$ () (4) $\frac{3}{8} =$ ()

教學活動 7 (小數換成分數)

將下列的小數用分數表示：

(1) 0.7 公克 = () 公克

(2) 0.12 公里 = () 公里

(3) 0.825 小時 = () 小時

【概念講解】

◆ 0.7 是 7 個 0.1， $0.1 = \frac{1}{10}$ ，

7 個 0.1 就是 7 個 $\frac{1}{10}$ ，也就是 $\frac{7}{10}$ 。

$$0.7 \text{ 公克} = \frac{7}{10} \text{ 公克}$$

◆ 0.12 是 12 個 0.01， $0.01 = \frac{1}{100}$ ，

12 個 0.01 就是 12 個 $\frac{1}{100}$ ，也就是 $\frac{12}{100}$ 。

$$0.12 \text{ 公里} = \frac{12}{100} \text{ 公里}$$

◆ 0.825 是 825 個 0.001， $0.001 = \frac{1}{1000}$ ，

825 個 0.001 就是 825 個 $\frac{1}{1000}$ ，也就是 $\frac{825}{1000}$ 。

$$0.825 \text{ 小時} = \frac{825}{1000} \text{ 小時}$$

【重新佈題】將小數換成分數：

(1) 0.63 = () (2) 0.3 = ()

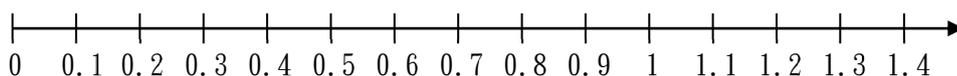
(3) 0.189 = () (4) 0.25 = ()

教學活動 8 (小數數線)

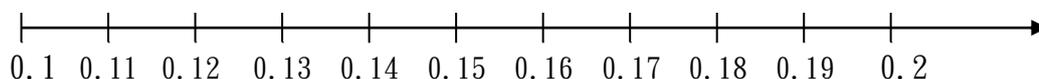
將 1.32、1.38 標示在數線上。

【概念講解】

- ◆ 將 0~1 分成 10 小格，每 1 格代表 $\frac{1}{10}$ ，也是 0.1。

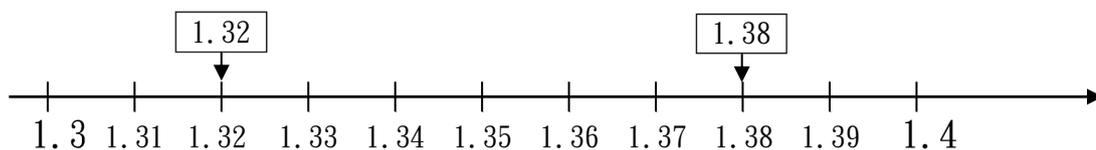


- ◆ 再將 0.1~0.2 分成 10 小格，每 1 格代表 $\frac{1}{100}$ ，也是 0.01。



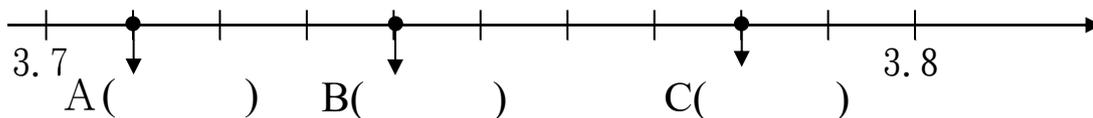
- ◆ 將 1.32、1.38 標示在數線上。

1.32 與 1.38 在 1.3 與 1.4 之間，將 1.3~1.4 分成 10 小格，
在找出來。



【重新佈題】

在下列的小數數線中，A、B、C 各點表示的小數是多少？



例題講解 1 (一、二位小數除以二位整數)

阿桓參加騎腳踏車比賽，全長 46.98 公里，共花 81 分鐘完成，
請問阿桓平均每分鐘騎多少公里？

【解題步驟】

- 因為距離 \div 時間 = 速率，平均每分鐘騎車的距離，可以用 $46.98 \div 81$ 來計算。
- 用直式算算看：

$$\begin{array}{r} \text{十百} \\ \text{十個分分} \\ \text{位位位位} \\ 0. \\ 81 \overline{) 46.98} \end{array}$$

46 不夠除
81，在個位
記上 0，並
加上小數
點。

$$\begin{array}{r} \text{十百} \\ \text{十個分分} \\ \text{位位位位} \\ 0.5 \\ 81 \overline{) 46.98} \\ \underline{405} \\ 64 \end{array}$$

46 個 1 和 9 個 0.1 合
起來是 469 個 0.1。
 $469 \div 81 = 5 \cdots 64$ ，在
十分位記 5。

$$\begin{array}{r} \text{十百} \\ \text{十個分分} \\ \text{位位位位} \\ 0.58 \\ 81 \overline{) 46.98} \\ \underline{405} \\ 648 \\ \underline{648} \\ 0 \end{array}$$

64 個 0.1 和 8 個 0.01 合
起來是 648 個 0.01。
 $648 \div 81 = 8$ ，在百分位
記 8。

3. $46.98 \div 81 = 0.58$

用直式驗算： $0.58 \times 81 = 46.98$

$$\begin{array}{r} 0.58 \\ \times 81 \\ \hline 58 \\ 464 \\ \hline 46.98 \end{array}$$

答：0.58 公里

換你試試看

1 包茶葉重 0.9 公斤，平均分裝成 15 小包，每小包是重幾公斤？

例題講解 2 (分數換成小數)

將 $4\frac{1}{5}$ 用小數表示。

【解題步驟】

1. 將 $4\frac{1}{5}$ 換成小數：

方法一：將帶分數換成假分數，再計算。

$$4\frac{1}{5} = \frac{21}{5} = 21 \div 5 = 4.2$$

2. 方法二：將帶分數分解成整數 + 真分數

$$4\frac{1}{5} = 4 + \frac{1}{5}, \quad \frac{1}{5} = 0.2,$$

$$4\frac{1}{5} = 4 + \frac{1}{5} = 4 + 0.2 = 4.2$$

將分數換成小數：

換你試試看

(1) $3\frac{1}{2} = (\quad)$

(2) $12\frac{1}{4} = (\quad)$

(3) $9\frac{3}{5} = (\quad)$

(4) $6\frac{5}{8} = (\quad)$

例題講解 3 (小數換成分數)

將 8.65 公克用分數表示為幾公克？

【解題步驟】

1. 將 8.65 換成分數：

方法一：8.65 是 865 個 0.01，1 個 0.01 是 $\frac{1}{100}$ ，

$$865 \text{ 個 } \frac{1}{100} = \frac{865}{100} = 8\frac{65}{100}$$

2. 方法二：將帶小數分解成（整數＋純小數）

$$8.65 = 8 + 0.65, 0.65 = \frac{65}{100},$$

$$8.65 = 8 + 0.65 = 8 + \frac{65}{100} = 8\frac{65}{100}$$

換你試試看

1 袋麵粉 4.05 公斤，用分數表示，寫成幾公斤？

5-6-2 認識比率

教學活動 1 (認識比率)

籃子裡有紅色球 8 顆、黃色球 7 顆、綠色球 5 顆，請問各色的球占全部的球的比率各多少？哪一種顏色的球所占的比率最多？

【概念講解】

- ◆ 先算出全部的球數。

$$\text{紅色球} + \text{黃色球} + \text{綠色球} = 8 + 7 + 5 = 20 \text{ (顆)}$$

- ◆ 各色球占全部的球的比率 = $\frac{\text{各色的球數}}{\text{全部的球數}}$

$$\text{紅色球} : \frac{\text{紅色的球數}}{\text{全部的球數}} = \frac{8}{20}$$

$$\text{黃色球} : \frac{\text{黃色的球數}}{\text{全部的球數}} = \frac{7}{20}$$

$$\text{綠色球} : \frac{\text{綠色的球數}}{\text{全部的球數}} = \frac{5}{20}$$

- ◆ $\frac{8}{20} > \frac{7}{20} > \frac{5}{20}$ ，表示紅色球所占的比率最多。

答：紅色 $\frac{8}{20}$ ；黃色 $\frac{7}{20}$ ；綠色 $\frac{5}{20}$ ，紅色最多

小秘密：

以部分的數量 ÷ 全部的數量計算出來的數字，稱為【比率】。



【重新佈題】

課輔班共有 18 位學生，視力檢查發現有 11 位學生的視力不合格。請問視力不合格的學生占全部學生的比率有多少？

教學活動 2 (認識百分率)

圓圓到超市購買奶茶，他看到奶茶瓶上標示：鮮奶含量 45%，請問「45%」是什麼意思？



【概念講解】

- ◆ 生活當中常見到 45% 這樣的數字，這是比率的表示方式。
- ◆ 「%」這個符號是「百分率」的符號，讀作「percent」。
- ◆ $1\% = \frac{1}{100} = 0.01$ ，45% 表示將全部的數量分成 100 等分，其中的 45 等分就是 45%，讀作「百分之四十五」。

【重新佈題】

(1) 36% 讀作 ()。

(2) $15\% = \frac{(\quad)}{100}$

(3) $\frac{90}{100} = (\quad)\%$

教學活動 3 (百分率)

右表是體育課，小玉和小齊 2 人的投籃紀錄表。

| 姓名 | 投球數 | 進球數 |
|-----------|-----|-----|
| <u>小玉</u> | 24 | 18 |
| <u>小齊</u> | 15 | 9 |

請問：

(1) 二人的投進比率分別是多少？用百分率來表示。

(2) 誰投進的比率比較高？

【概念講解】

◆ 用比率 = 部分的數量 ÷ 全部的數量來計算 2 人投進的比率。

◆ 小玉投進的比率 = $18 \div 24 = 0.75 = \frac{75}{100} = 75\%$

小齊投進的比率 = $9 \div 15 = 0.6 = \frac{60}{100} = 60\%$

◆ $75\% < 60\%$ ，表示小齊投進的比率比較高。

【重新佈題】

右表是課輔班的視力調查

表。請問：

| 班級 | 全班人數 | 視力不合格人數 |
|----|------|---------|
| 甲班 | 25 | 17 |
| 乙班 | 24 | 15 |

(1) 甲、乙二班視力不合格率分別是多少？用百分率來表示。

(2) 哪一個班級的視力不合格率比較低？

教學活動 4 (小數與百分率互換)

根據統計，台灣的電力來源有 16% 來自核能、78.4% 來自火力、4.2% 來自再生能源、1.4% 來自抽蓄水力，這些百分率用小數怎麼表示？

【概念講解】

◆ 百分率是在 100 等分中所佔的比率，可以用分母等於 100 的分數來表示。

◆ 核能占 $16\% = \frac{16}{100} = 0.16$

$$\text{火力占 } 78.4\% = \frac{78.4}{100} = \frac{784}{1000} = 0.784$$

$$\text{再生能源占 } 4.2\% = \frac{4.2}{100} = \frac{42}{1000} = 0.042$$

$$\text{抽蓄水力占 } 1.4\% = \frac{1.4}{100} = \frac{14}{1000} = 0.014$$

【重新佈題】

把百分率化成小數：

(1) $69\% = (\quad)$ (2) $100\% = (\quad)$

(3) $5.5\% = (\quad)$ (4) $11.9\% = (\quad)$

教學活動 5 (分數與百分率互換)

下表五年甲班的家長職業類別統計，請將表格完成。

| 班級 | 農 | 工 | 商 | 軍公教 | 服務業 | 其他 |
|-----|----------------|---------------|---------------|----------------|----------------|----------------|
| 比率 | $\frac{3}{25}$ | $\frac{2}{5}$ | $\frac{1}{5}$ | $\frac{4}{25}$ | $\frac{1}{25}$ | $\frac{2}{25}$ |
| 百分率 | | | | | | |

【概念講解】

◆ 百分率是指 100 等分中所佔的比率，將分母換成 100。

◆ 農占 $\frac{3}{25} = \frac{3 \times 4}{25 \times 4} = \frac{12}{100} = 12\%$

工占 $\frac{2}{5} = \frac{2 \times 20}{5 \times 20} = \frac{40}{100} = 40\%$

商占 $\frac{1}{5} = \frac{1 \times 20}{5 \times 20} = \frac{20}{100} = 20\%$

軍公教占 $\frac{4}{25} = \frac{4 \times 4}{25 \times 4} = \frac{16}{100} = 16\%$

服務業占 $\frac{1}{25} = \frac{1 \times 4}{25 \times 4} = \frac{4}{100} = 4\%$

其他占 $\frac{2}{25} = \frac{2 \times 4}{25 \times 4} = \frac{8}{100} = 8\%$

◆ 完成表格：

| 班級 | 農 | 工 | 商 | 軍公教 | 服務業 | 其他 |
|-----|----------------|---------------|---------------|----------------|----------------|----------------|
| 比率 | $\frac{3}{25}$ | $\frac{2}{5}$ | $\frac{1}{5}$ | $\frac{4}{25}$ | $\frac{1}{25}$ | $\frac{2}{25}$ |
| 百分率 | 12% | 40% | 20% | 16% | 4% | 8% |

【重新佈題】

把分數化成百分率：

$$(1) \frac{61}{200} = (\quad) \quad (2) \frac{8}{125} = (\quad)$$

$$(3) \frac{6}{25} = (\quad) \quad (4) \frac{9}{10} = (\quad)$$

教學活動 6 (百分率的應用)

1 份數學考卷有 24 題，佳佳的答對率是 75%，小玉的答對率是 87.5%，請問他們分別答對幾題？

【概念講解】

◆ 答對率 = 答對的題目數 ÷ 全部的題目數。

要算答對的題目數用全部的題目數 × 答對率來計算。

◆ 佳佳答對的題目數： $24 \times 75\% = 24 \times \frac{75}{100} = 18$

小玉答對的題目數： $24 \times 87.5\% = 24 \times \frac{87.5}{100} = 21$

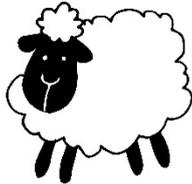
答：佳佳 18 題；小玉 21 題

【重新佈題】

1 瓶 500 毫升的奶茶中，鮮奶的含量占 42.6%，請問鮮奶有多少毫升？

教學活動 7 (百分率的應用)

超市舉辦特賣會，請問下列商品在特賣會期間的售價是多少元？

| 商品 | 抱枕  | 鞋子  | 玩具車  | 毛衣  |
|----|---|---|---|---|
| 定價 | 580 元 | 1200 元 | 950 元 | 1280 元 |
| 折扣 | 6 折 | 75 折 | 40% off | 55% off |

【概念講解】

- ◆ 打六折、打七五折的意思是什麼呢？

「打六折」就是售價為定價的 $\frac{6}{10} = \frac{60}{100} = 60\%$

「打七五折」就是售價為定價的 $\frac{75}{100} = 75\%$

- ◆ 算一下抱枕和鞋子的售價：

$$\text{抱枕 6 折：} 580 \times 60\% = 580 \times \frac{60}{100} = 348$$

$$\text{鞋子 75 折：} 1200 \times 75\% = 1200 \times \frac{75}{100} = 900$$

- ◆ 40% off、55% off 的意思是什麼呢？

40% off 的優惠指的是售價 = 定價 - 定價的 40% 後的金額。

55% off 的優惠指的是售價 = 定價 - 定價的 55% 後的金額。

◆ 算一下玩具車和毛衣的售價：

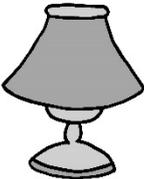
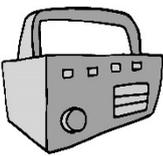
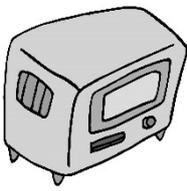
$$\text{玩具車 } 40\% \text{ off} : 950 - 950 \times 40\% = 950 - 380 = 570$$

$$\text{毛衣 } 55\% \text{ off} : 1280 - 1280 \times 55\% = 1280 - 704 = 576$$

答：抱枕 348 元；鞋子 900 元；玩具車 570 元；毛衣 576 元

【重新佈題】

電器清倉拍賣，請幫忙算出各項電器拍賣的價格。

| 商品 | 檯燈  | 收音機  | 烤箱  | 相機  |
|----|--|--|---|--|
| 定價 | 640 元 | 1500 元 | 2500 元 | 12000 元 |
| 折扣 | 55 折 | 3 折 | 60% off | 25% off |
| 售價 | | | | |

例題講解 1 (小數與百分率互換)

根據統計，台灣地區學生視力不良狀況逐年增加。以國小六年級生為例，79 年視力不良比率為 0.35，84 年視力不良比率為 0.554，89 年視力不良比率為 0.6，請問這些比率用百分率怎麼表示？

【解題步驟】

1. 視力不良比率 = 視力不良人數 ÷ 全部的人數

$$2. \text{79 年比率為 } 0.35 = \frac{35}{100} = 35\%$$

$$\text{84 年比率為 } 0.554 = \frac{554}{1000} = \frac{55.4}{100} = 55.4\%$$

$$\text{89 年比率為 } 0.6 = \frac{6}{10} = \frac{60}{100} = 60\%$$

換你試試看

棒球隊中，大明、小軍、家齊的打擊率分別是 0.35、0.2、0.257，用百分率怎麼表示？

例題講解 2 (分數與百分率互換)

下表為根據五年乙班全班 25 人所做的用餐狀況統計，請將百分率用分數表示並算出各項的用餐人數：

| 用餐狀況 | 葷食 | | 素食 | |
|---------------|-----|-----|-----|-----|
| | 男生 | 女生 | 男生 | 女生 |
| 百分率 | 32% | 28% | 16% | 24% |
| 比率 (用分數表示) | | | | |
| 用餐人數(人) | | | | |

【解題步驟】

1. 百分率是指 100 等分中所佔的比率，將分母換成 100。

2. 葷食：

$$\text{男生占 } 32\% = \frac{32}{100} = \frac{8}{25}, \text{ 用餐人數} = 25 \times 32\% = 25 \times \frac{32}{100} = 8$$

$$\text{女生占 } 28\% = \frac{28}{100} = \frac{7}{25}, \text{ 用餐人數} = 25 \times 28\% = 25 \times \frac{28}{100} = 7$$

3. 素食：

$$\text{男生占 } 16\% = \frac{16}{100} = \frac{4}{25}, \text{ 用餐人數} = 25 \times 16\% = 25 \times \frac{16}{100} = 4$$

$$\text{女生占 } 24\% = \frac{24}{100} = \frac{6}{25}, \text{ 用餐人數} = 25 \times 24\% = 25 \times \frac{24}{100} = 6$$

4. 完成表格：

| 用餐狀況 | 葷食 | | 素食 | |
|---------------|----------------|----------------|----------------|----------------|
| | 男生 | 女生 | 男生 | 女生 |
| 百分率 | 32% | 28% | 16% | 24% |
| 比率 (用分數表示) | $\frac{8}{25}$ | $\frac{7}{25}$ | $\frac{4}{25}$ | $\frac{6}{25}$ |
| 用餐人數(人) | 8 人 | 7 人 | 4 人 | 6 人 |

換你試試看

把百分率化成分數：

(1) 25% = () (2) 87.5% = ()

(3) 43% = () (4) 48% = ()

例題講解 3 (百分率的應用)

小考試卷有 20 題，嘉君答錯 9 題，請問他的答對率是多少？

【解題步驟】

1. 答對率 = 答對的題目數 ÷ 全部的題目數。
2. 全部有 20 題，答錯 9 題，答對的題目數 = 20 - 9 = 11

嘉君答對 11 題。

3. 嘉君的答對率 = $\frac{11}{20} = \frac{11 \times 5}{20 \times 5} = \frac{55}{100} = 55\%$

答：55%

換你試試看

爸爸將果汁加入冰開水中，調成 1 瓶 460 毫升的果汁飲料，其中果汁的含量占 15%，請問這瓶果汁飲料中的冰開水有多少毫升？

例題講解 4 (百分率的應用)

李爺爺的水果店進了一批櫻桃，櫻桃的成本是每公斤 190 元，李爺爺將成本加 3 成作為定價。請問櫻桃每公斤的定價是幾元？

【解題步驟】

1. 「成本加 3 成」就是成本再加上 30%。
2. 定價 = 成本 + 成本 × 30%

$$\text{定價} = 190 + 190 \times 30\% = 190 + 57 = 247$$

3. 換個方式再算一次：

$$\begin{aligned}\text{定價} &= \text{成本} + \text{成本} \times 30\% = \text{成本} + \text{成本} \times \frac{30}{100} \\ &= \text{成本} \times \left(1 + \frac{30}{100}\right) = \text{成本} \times \frac{130}{100}\end{aligned}$$

$$\text{定價} = 190 + 190 \times 30\% = 190 \times \left(1 + \frac{30}{100}\right) = 190 \times \frac{130}{100} = 247$$

答：247 元