

# DIFFERENTIATION

## Add Subtract Coins and Notes, Count Change

Money Financial Mathematics 7 Addition Subtraction 18

Based on your Professional Teacher Judgment and Pre-assessment data, Levels with **1** may be included in the first lesson; Based on embedded assessment data, Levels with **2** **3** may be included in the these lessons.



**MF 1 Features of Australian coins**

**MF 2 Values of Australian coins, not related to size**

**MF 4 100 cents in \$1, 200 cents in \$2**

$$\begin{array}{r} \$1 \\ 50c + 50c = \$1 \\ 50 + 50 = 100 \end{array}$$

**MF 5 Count, order small collections of coins and notes according to their value**

45 cents Lower value

55 cents Higher value

**MF 6 Make given amounts in multiple ways using coins and notes**

68c is closest to 70c

**MF 7 AS 18 Add and subtract coins and notes, count change**

SALE! \$3.75

Change = \$1.25

**MF 8 MD 6 Multiplication of coins and notes to make equivalent values**

$$4 \times 5c = 20c$$

**MF 9 AS 23 Add and subtract money, with up to four digits using place value. Round totals to the nearest 5 cents**

$$68c + 58c =$$

$$\begin{array}{r} 40c + 10c \quad 2c + 6c \\ + 40c \quad + 10c \quad + 2c \quad + 6c \\ \hline 68c \quad 1.08 \quad 1.18 \quad 1.20 \quad 1.26 \end{array}$$

Round to \$1.25

$$68c + 60c = 128c$$

$$68c + 60c = \$1.28$$

$$\$1.28 - 2c = \$1.26$$

$$68c + 58c = \$1.26$$
  

$$\$1.26 - 58c =$$

$$\begin{array}{r} 20c + 30c \quad 6c + 2c \\ - 2c \quad - 6c \quad - 30c \quad - 20c \\ \hline 68c \quad 70c \quad 76c \quad 1.06 \quad 1.26 \end{array}$$

Round to 70c

$$\$1.26 - 60c = 66c$$

$$66c + 2c = 68c$$

$$\$1.26 - 58c = 68c$$

Round to 70c

**MF 10 AS 24 Add and subtract five-digit numbers, as money, using place value. Round to the nearest 5 cents**

$$\$368.25 + \$258.97 = \$627.22$$

$$\begin{array}{r} \$40.00 + \$10.00 \quad \$2.00 + \$6.00 \quad 80c + 10c \quad 5c + 2c \\ + \$200 \quad + \$40 \quad + \$10 \quad + \$2 \quad + \$6 \quad + 80c + 10c \quad + 5c + 2c \\ \hline \$368.25 \quad \$568.25 \quad \$608.25 \quad \$618.25 \quad \$620.25 \quad \$626.25 \quad \$627.05 \quad \$627.15 \quad \$627.20 \quad \$627.22 \end{array}$$

$$\$368.25 + \$258.97 =$$

$$\$368.25 + \$260.00 = \$628.25$$

$$\$628.25 - \$1.03 = \$627.22$$

$$\$368.25 + \$258.97 = \$627.22$$

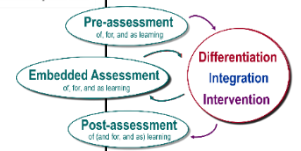
$$\$627.22 - \$158.97 = \$468.25$$

$$\begin{array}{r} \$20 + \$30 \quad \$7 + \$1 \quad 20c + 70c \quad 2c + 5c \\ - 5c - 2c \quad - 70c \quad - 20c \quad - \$1 \quad - \$7 \quad - \$30 \quad - \$20 \quad - \$100 \\ \hline \$468.25 \quad \$468.30 \quad \$468.32 \quad \$469.02 \quad \$469.22 \quad \$470.22 \quad \$477.22 \quad \$507.22 \quad \$527.22 \quad \$627.22 \end{array}$$

$$\$627.22 - \$158.97 =$$

$$\$627.22 - \$160.00 = \$467.22$$

$$\$467.22 + \$1.03 = \$468.25$$

$$\$627.22 - \$158.97 = \$468.25$$


Embedded assessment data may tell us we need to re-explicitly teach some Levels.

**FD29 Percentages as hundredths.**

**MF 11 FD 16 PV 22 Amounts of money are written with two decimal places. Recognise cents as a fraction of a dollar.**

\$4.25

\$ 4 . 2 5

ones tenths hundredths

\$ 4 . 2 5

ones tenths hundredths

\$ 4 . 2 5

decimal point

**MF 12 Financial plans using a spreadsheet program**

	A	B	C
1	Income	Expenses	Balance
2		\$10.00	\$2.00
3			\$5.00
4			\$4.00
5			
6			
7			
8			
9			
10		=sum(B2:B9)	B8 x 1%
11			
12			

**MF 13 FD 30 Investigate and calculate percentage discounts of 10%, 25% and 50% on sale items**

**SALE UP TO 70% OFF**

**PLUS FURTHER REDUCTIONS**

70% of \$49.95 Round up to \$50

70% of \$50 = 10% of \$50 = \$5

7 x \$5 = \$35 discount

\$50 - \$35 = \$15

30% of \$49.95 Round up to \$50

30% of \$50 = 10% of \$50 = \$5

3 x \$5 = \$15 discounted price