Linear Systems Review Task Cards

Print double-sided, flipping on the long edge. Cut along the frames.

A1

Solve the system.
Use the method that fits best.

A $y = 2x - 7$

B $3x + 2y = 7$

A2

Solve the system.
Use the method that fits best.

A $3x + 4y = 10$

B $5x - 3y = 7$

A3

Tickets to the school play cost \$12 for adults and \$7 for students. In total, 280 tickets were sold, and the total revenue was \$2560.

How many tickets of each kind were sold?

Write "let" statements and two equations, then solve.

Linear Systems Review Task Cards — Backs

Answers for the cards on the other side of this sheet.

A2 — answer

$(2,\ 1)$

A1 — answer

$(3,\ -1)$

A3 — answer

$$a + s = 280$$
$$12a + 7s = 2560$$

120 adult tickets
160 student tickets

Linear Systems Review Task Cards

Print double-sided, flipping on the long edge. Cut along the frames.

B1

Solve the system.
Use the method that fits best.

A $x = 3y + 5$

B $2x + 5y = -1$

B2

Solve the system.
Use the method that fits best.

A $2x + 5y = 4$

B $3x + 2y = -5$

B3

Maya invested \$8000 in total. She invested part of it at 4% and the rest at 6%. After one year, she had earned \$410 in interest altogether.

How much did Maya invest at each rate?

Write "let" statements and two equations, then solve.

Linear Systems Review Task Cards — Backs

Answers for the cards on the other side of this sheet.

B2 — answer

$(-3,\ 2)$

B1 — answer

$(2,\ -1)$

B3 — answer

$$x + y = 8000$$
$$0.04x + 0.06y = 410$$

\$3500 at 4%
\$4500 at 6%

Linear Systems Review Task Cards

Print double-sided, flipping on the long edge. Cut along the frames.

C1

Solve the system.
Use the method that fits best.

A $y = -3x + 4$

B $5x + 2y = 6$

C2

Solve the system.
Use the method that fits best.

A $4x - 3y = 18$

B $3x + 5y = -1$

C3

Flying with the wind, a plane travels 2400 km in 4 hours. The return trip, against the same wind, takes 5 hours.

Find the speed of the plane in still air and the speed of the wind.

Write "let" statements and two equations, then solve.

Linear Systems Review Task Cards — Backs

Answers for the cards on the other side of this sheet.

C2 — answer

$(3,\ -2)$

C1 — answer

$(2,\ -2)$

C3 — answer

$$p + w = 600$$
$$p - w = 480$$

Plane: 540 km/h
Wind: 60 km/h

Linear Systems Review Task Cards

Print double-sided, flipping on the long edge. Cut along the frames.

D1

Solve the system.
Use the method that fits best.

A $x = 4 - 2y$

B $3x - 4y = 22$

D2

Solve the system.
Use the method that fits best.

A $5x + 2y = -4$

B $3x - 7y = -27$

D3

A taxi company charges a fixed fee plus a rate for each kilometre travelled. A 10 km ride costs $23.50. A 16 km ride costs $34.30.

Find the fixed fee and the rate per kilometre.

Write "let" statements and two equations, then solve.

Linear Systems Review Task Cards — Backs

Answers for the cards on the other side of this sheet.

D2 — answer

$(-2,\ 3)$

D1 — answer

$(6,\ -1)$

D3 — answer

$$f + 10r = 23.50$$
$$f + 16r = 34.30$$

Fixed fee: \$5.50
Rate: \$1.80 per km

Linear Systems Review Task Cards

Print double-sided, flipping on the long edge. Cut along the frames.

E1

Solve the system.
Use the method that fits best.

A $y = 4x + 9$

B $2x - 3y = 3$

E2

Solve the system.
Use the method that fits best.

A $6x + 5y = 14$

B $4x - 3y = -16$

E3

A jar holds 85 coins. Every coin is either a loonie ($1) or a toonie ($2). Altogether, the coins are worth $127.

How many coins of each kind are in the jar?

Write "let" statements and two equations, then solve.

Linear Systems Review Task Cards — Backs

Answers for the cards on the other side of this sheet.

E2 — answer

$(-1,\ 4)$

E1 — answer

$(-3,\ -3)$

E3 — answer

$$l + t = 85$$
$$l + 2t = 127$$

43 loonies
42 toonies