1. Independent and Dependent Variables

What is the **dependent** variable in the scenario?

Mr. Fitzgerald will buy 2 spare pencils for each student in his class.

2. Independent and Dependent Variables

Which equation matches the scenario?

When converting distances by hand, April knows that each foot, *f*, is .3048 meters, *m*.

a. $m = .3048f$
b. $m = f - .3048$
c. $m = .3048 - f$
d. $m = .3048 + f$

Which equation describes the table? Use it to fill in the missing box.

x	y
-2.5	-9
0	
2.5	1
5	6

a. $y = 3x - 2.5$ **b.** $y = 2x - 4$
c. $y = 2.5x - 3$ **d.** $y = -2x + 4$

Write the correct equation and the missing value on your answer sheet.

Which ordered pair makes sense in the scenario?

A survey company donates $0.25 to charity for each respondent.

a. (0, .25)
b. (.25, 0)
c. (5, 20)
d. (20, 5)

Write the correct ordered pair on your answer sheet.

5. Independent and Dependent Variables

What is the **independent** variable in the scenario?

Every item Antonella buys at a bookstore is discounted 15% thanks to her loyalty card.

6. Independent and Dependent Variables

Which equation matches the scenario?

Franklin is deciding how many party pizzas to order for a large group. Each one feeds 8 people.

a. $y = \frac{8}{x}$ **b.** $y = x - 8$

c. $y = \frac{x}{8}$ **d.** $y = 8 + x$

Which equation describes the table? Use it to fill in the missing box.

x	y
$-\frac{2}{3}$	-6
$-\frac{1}{3}$	
0	0

a. $y = 9x$ **b.** $y = \frac{x}{9}$

c. $y = \frac{2x}{3}$ **d.** $y = x - \frac{16}{3}$

Write the correct equation and the missing value on your answer sheet.

Which ordered pair makes sense in the scenario?

A class collected cans of food then donated them equally to 2 food banks.

a. (20,22)
b. (22,20)
c. (20,10)
d. (10,20)

Write the correct ordered pair on your answer sheet.

9. Independent and Dependent Variables

What is the **dependent** variable in the scenario?

Whenever Neo exercises, he spends an extra 10 minutes warming up and cooling down.

10. Independent and Dependent Variables

Which equation matches the scenario?

After spending $90 to set everything up and selling cookies, c, for $2.50 each, the bake sale made a total profit, p.

a. $c = 2.50p - 90$
b. $c = 2.50p + 90$
c. $p = 2.50c - 90$
d. $p = 2.50c + 90$

Which equation describes the table? Use it to fill in the missing box.

x	y
-1	
1	15
3	21
5	27

a. $y = 12 + 3x$ **b.** $y = x + 14$

c. $y = 5x + 2$ **d.** $y = 7x$

Write the correct equation and the missing value on your answer sheet.

Which ordered pair makes sense in the scenario?

Lydia spent $3 on a cup of frozen yogurt and 50 cents extra for each topping.

a. (2,4)
b. (4,2)
c. (0,3.5)
d. (3.5,0)

Write the correct ordered pair on your answer sheet.

13. Independent and Dependent Variables

What is the **independent** variable in the scenario?

A fundraising raffle charges $5 at the door, plus $1 for every raffle ticket purchased.

Which equation describes the table? Use it to fill in the missing box.

x	y
2	25
3	16.7
4	12.5
5	

a. $y = 20x - 15$ **b.** $y = 3x + .5$

c. $y = 5x$ **d.** $y = \frac{50}{x}$

Write the correct equation and the missing value on your answer sheet.

14. Independent and Dependent Variables

Which equation matches the scenario?

Eloise hired someone to help her move. He charges a $50 starting fee and $80 per hour of work.

a. $y = 50(80x)$

b. $y = 80x + 50$

c. $y = 50 + \frac{80}{x}$

d. $y = 80 + 50x$

Which ordered pair makes sense in the scenario?

Mrs. Shannon's prize bowl started with 150 prizes. Each week, 5 students pick 1 prize each.

a. (140,2)
b. (2,140)
c. (150,5)
d. (5,150)

Write the correct ordered pair on your answer sheet.

17. Independent and Dependent Variables

What is the **dependent** variable in the scenario?

**Hendrix won a giant bag of candy.
He splits the contents among 4 friends.**

18. Independent and Dependent Variables

Which equation matches the scenario?

A bakery sells a box of 12 donuts for $13. Magdalena has an unlimited coupon for $3 off every box.

a. $y = x - 3$
b. $y = 12x$
c. $y = 13x - 3$
d. $y = 10x$

Which equation describes the table? Use it to fill in the missing box.

x	y
-25	300
25	250
75	
125	150

a. $y = x + 325$ **b.** $y = 10x$
c. $y = 275 - x$ **d.** $y = x + 50$

Write the correct equation and the missing value on your answer sheet.

Which ordered pair makes sense in the scenario?

Blaze burns about 4 calories every minute he walks around the mall.

a. (60, 15)
b. (15, 60)
c. (2, 5)
d. (5, 2)

Write the correct ordered pair on your answer sheet.

21. Independent and Dependent Variables

What is the **independent** variable in the scenario?

Ms. Aguirre's car will drive 43 miles on one gallon of gas.

22. Independent and Dependent Variables

Which equation matches the scenario?

A subway ride, *s*, costs $2. A bus ride, *b*, costs $3. Frances spends *d* dollars a month on rides.

a. $d = 5(s + b)$
b. $d = 5(sb)$
c. $d = 2s + 3b$
d. $d = s + 2 + b + 3$

Which equation describes the table? Use it to fill in the missing box.

x	y
-2	10
-1	
0	8
1	7

a. $y = x - 8$ **b.** $y = 8 - x$

c. $y = 8x$ **d.** $y = 8 + x$

Write the correct equation and the missing value on your answer sheet.

Which ordered pair makes sense in the scenario?

Edgar earned $10 an hour babysitting his cousins. He also got a $5 tip.

a. (5, 55)
b. (55, 5)
c. (2, 30)
d. (30, 2)

Write the correct ordered pair on your answer sheet.

25. Independent and Dependent Variables

What is the **dependent** variable in the scenario?

A restaurant is making $2 profit off every large drink it sells.

26. Independent and Dependent Variables

Which equation matches the scenario?

Rivka started hiking at 17 meters above sea level. She ascended another 7 meters every kilometer hiked.

a. $y = 17x - 7$
b. $y = 24x$
c. $y = 7x - 17$
d. $y = 17 + 7x$

Which equation describes the table? Use it to fill in the missing box.

x	y
0	0
2	.5
4	
6	1.5

a. $y = \frac{x}{3}$ **b.** $y = x - 3$

c. $y = 1.5x$ **d.** $y = \frac{x}{4}$

Write the correct equation and the missing value on your answer sheet.

Which ordered pair makes sense in the scenario?

A group of students equally split up the work of a 20-hour project.

a. (10, 10)
b. (6.6, 3)
c. (8, 2.5)
d. (2.5, 8)

Write the correct ordered pair on your answer sheet.

29. Independent and Dependent Variables

What is the **independent** variable in the scenario?

Remy starts the day with 500 business cards, but she gives one away to each customer.

30. Independent and Dependent Variables

Which equation matches the scenario?

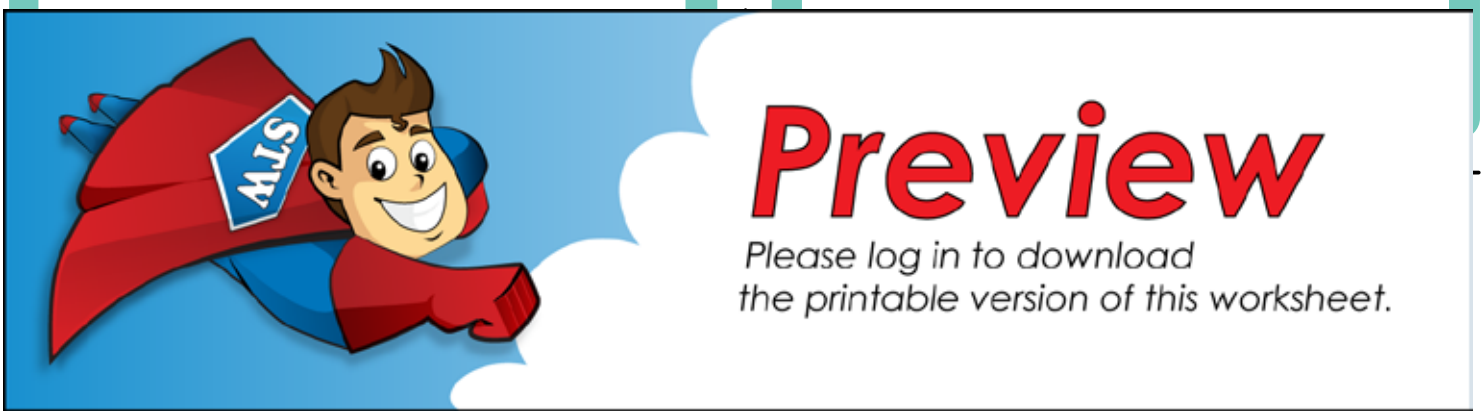
The Jimenzes rented a lake pontoon. They spent a total, *t*, of $75 for every hour, *h*, and $4.25 per gallon of gas, *g*.

a. $t = 154.25hg$

b. $t = 4.25g + 75h$

c. $t = \frac{4.25}{g} + \frac{75}{g}$

d. $t = (75 + h) \times (4.25 + g)$



Name: _____

Task Cards: Independent and Dependent Variables

1. _____

2. _____

3. equation: _____ **missing value:** _____

4. _____

5. _____

10. _____

11. equation: _____ **missing value:** _____

12. _____

13. _____

14. _____

15. equation: _____ **missing value:** _____

Name: _____

Task Cards: Independent and Dependent Variables

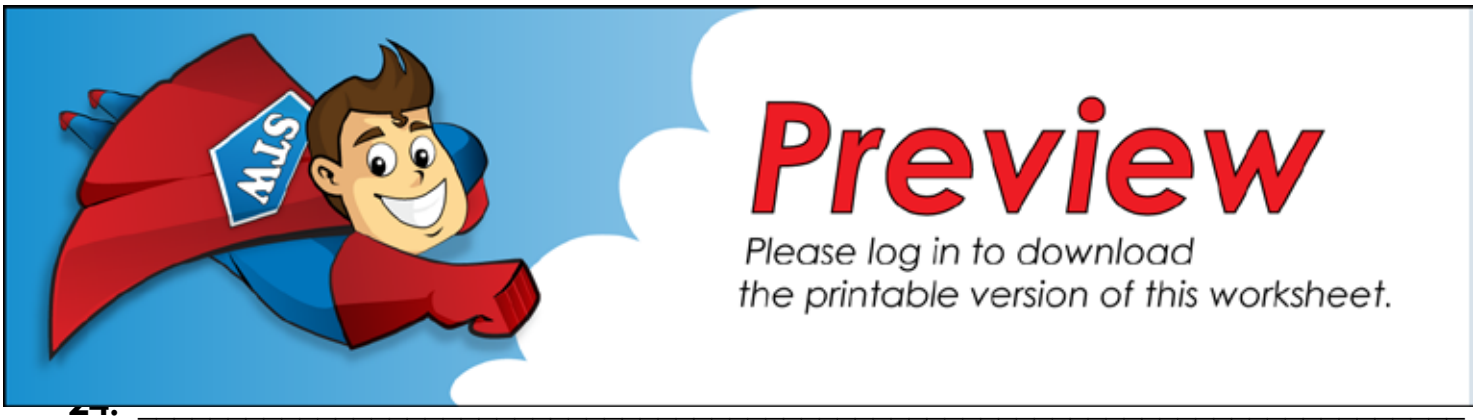
16. _____

17. _____

18. _____

19. **equation:** _____ **missing value:** _____

20. _____



24. _____

25. _____

26. _____

27. **equation:** _____ **missing value:** _____

28. _____

29. _____

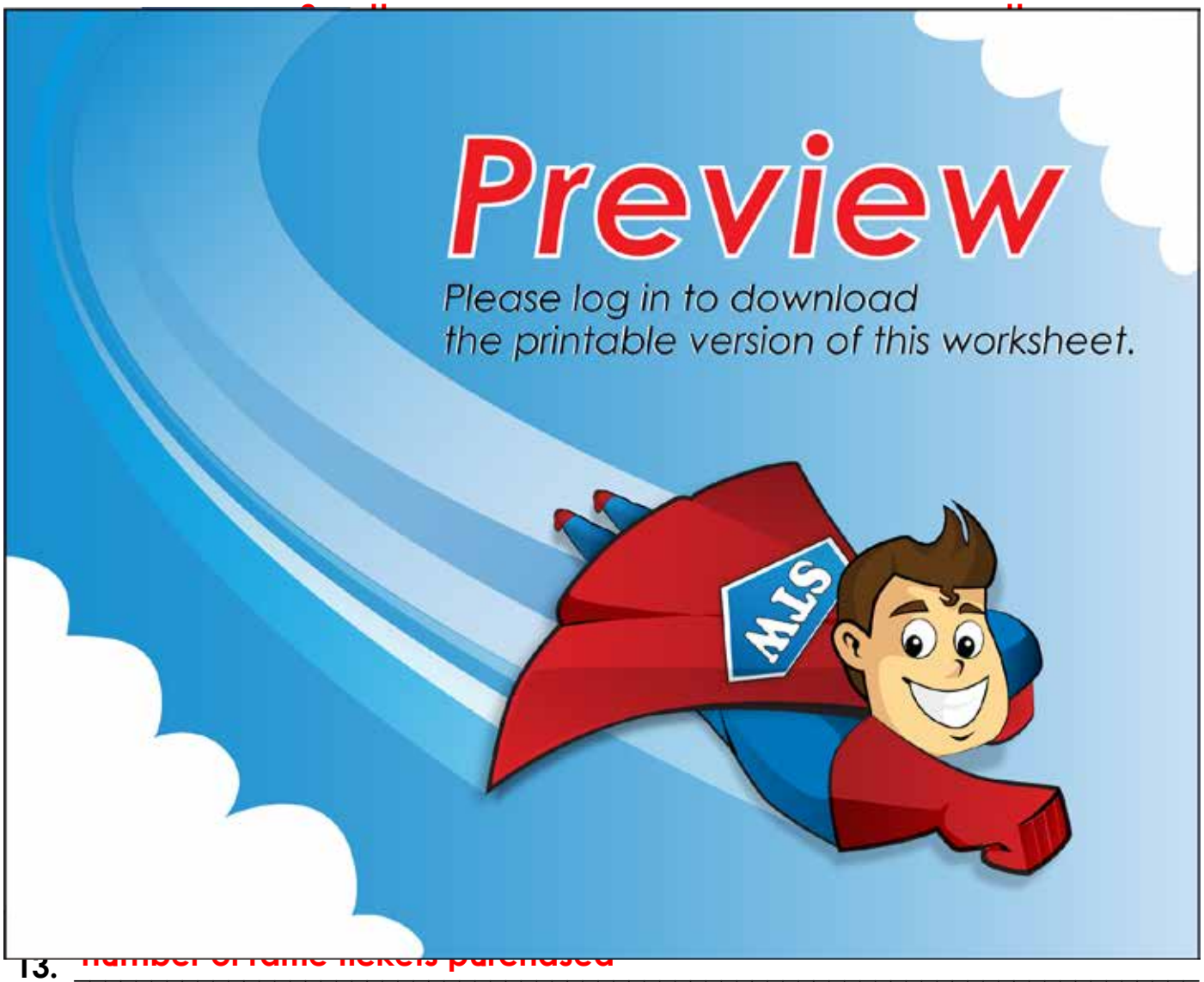
30. _____

ANSWER KEY

Task Cards: Independent and Dependent Variables

1. number of spare pencils bought

2. $m = .3048f$.



13. [illegible]

14. $y = 80x + 50$

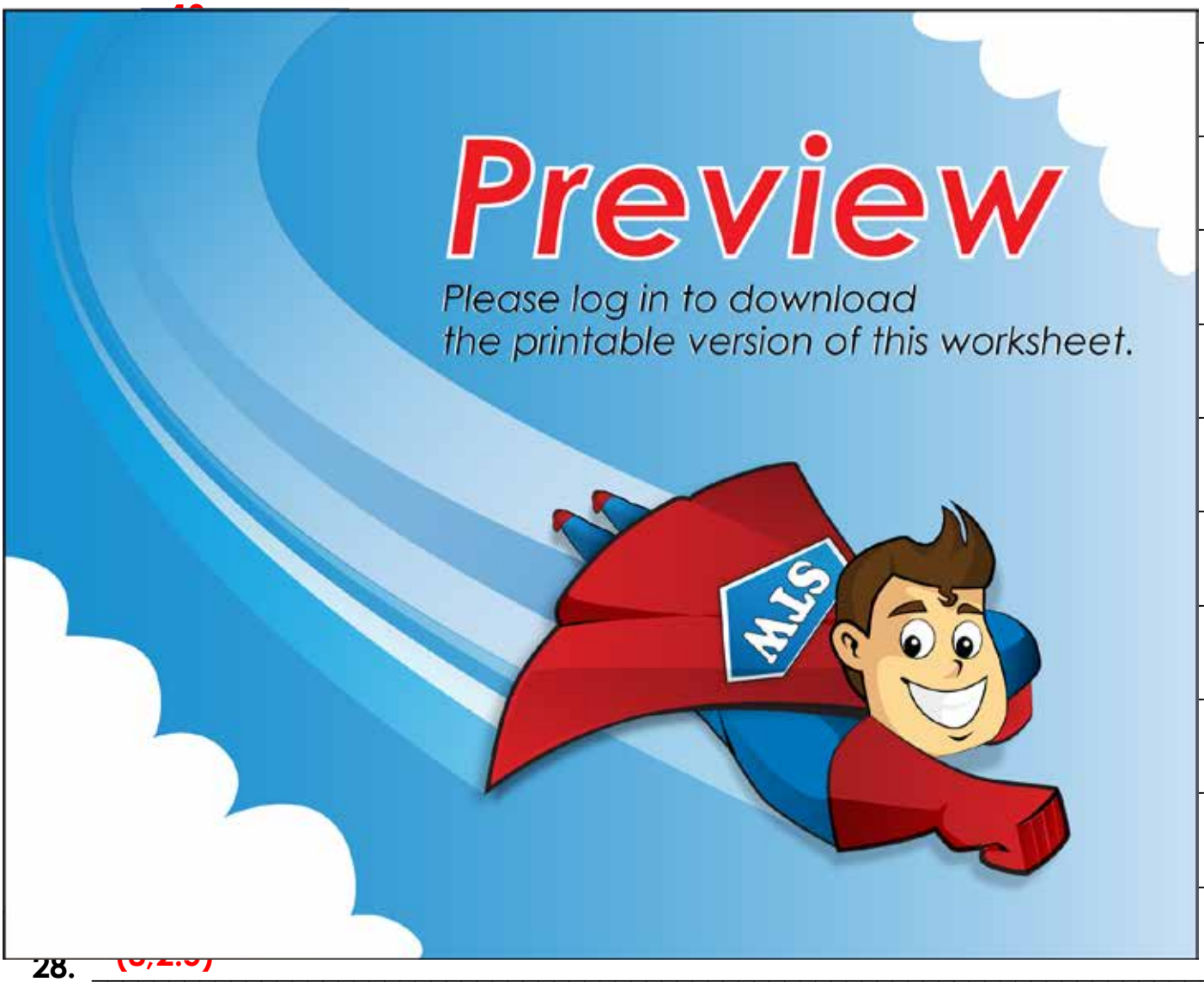
15. equation: $y = \frac{50}{x}$ missing value: 10

ANSWER KEY

Task Cards: Independent and Dependent Variables

16. (2,140)

17. amount of candy each friend receives



28. [illegible]

29. the number of customers

30. $t = 4.25g + 75h$