Power Math Multigame Cards

As the name implies, multigame cards are meant to be used with a variety of games. Here are some of the ways you can use them.

Combine them with other games – For example, if you can combine them with a board game like "Chutes & Ladders" by having the scholars answer a question before taking their turn at the board game.

Earn your pieces - Scholars answer multigame cards to "earn their pieces" for other games. For example, scholars earn two "Connect 4" discs for every correct answer if they want to play Connect 4. Or two playing cards (up to 10) if they want to play garbage or other games with the deck of cards. You can do something similar for checkers, chess, Uno, a variety of other games. Whatever "earning" strategy you use, scholars should answer 6-10 problems to earn what they need to play the game.

4-in-a-row – To play 4-in-a-row you will need the 4-in-a-row board from the pizza box and 6-sided dice. **Set up:** Shuffle the game cards and place them face down in the spaces on the gameboard so that the big numbers on the back of the cards are showing. **To play:** Player 1 rolls the die and picks a card that corresponds to the number rolled. For example, if Player 1 rolls a 6, they can pick any card on the board with a 6. If the player answers the question correctly, they can mark the space on the gameboard with their initial. If the player misses, take that card off the board and replace it with one of the extra question cards. If the player rolls a number that is not on the board then that roll is "wild" and the player can choose any card to answer. **To win:** First player to get 4-in-a-row in any direction wins.

Jenga - Colored Jenga blocks (Purple, Blue, Green, Yellow, Red) from the toy box. Shuffle the game cards and deal out 6 or 8 cards to each of the players. Have them work their problems while you build the Jenga tower. To play: Players can pull Jenga blocks the correspond to the colors on the backs of the problems they worked. In other words – if they want to pull a red block, they have to "turn in" a "red" problem that they worked. They can only pull blocks that match the colors indicated on their cards. A PBGYR card allows the player to pull any color card. Continue taking turns answering questions and pulling blocks until the tower falls.

Taco-Burger-Pizza-Drink (TBPD) – To play TBPD, you need the TBPD board from the pizza box, a game piece for each player and 6-sided dice. **Object of the game:** First player to collect 2 of each kind of food (Taco-Burger-Pizza-Drink) wins. **To play:** Separate the cards into piles according to the food on the back. Each player places her game piece somewhere on the board on either a Taco, a Burger, a Drink or a Pizza Slice. It doesn't matter where. Player 1 rolls the die and moves her game piece that number of spaces in any direction in order to land on the kind of food she wants. For example, she might land on a Taco. She draws a card from the Taco pile and answers it. If she answers correctly, she keeps the card. Player 2 does the same and so on. The first player to collect 2 of each kind of card wins. Lose your turn: If a player lands on a space where she already has 2 cards, it's the next player's turn. If you roll a 6 or a 1, you lose your turn.

Print: 2-sided

A. 27 inches

2
27 cubic units

B. 360 square inches

20.2 feet

5
32.34 meters

A. 864 square inches

A. 10 square meters

A

10

14

18

22

26

30

195 square inches

125 cubic units

C. 224 square inches

168 square inches

8 cubic units

A. 126 square feet

B. 5 centimeters

B. 12 inches

43 inches

C. 6 centimeters

B. 45 inches

25.4 feet

13

17

21

25

29

11

15

19

23

27

31

B. 2,860 cubic inches

C. 72 square feet

B.8 square feet

D. 5,400 cubic inches

480 Square inches

D. 96 square inches

12

16

20

24

28

32

192 square feet

30 feet

В

300 square feet

17.8 feet

Α

1. The combined perimeter of the rectangle and the triangle is 63 inches. The model shows the dimensions of the rectangle. What is the perimeter in inches of the triangle?

11 in.

C. 9 in. D. 21 in.

A. 27 in.

B. 45 in.

5.4.H - Perimeter, Area & Volume - Multigame

3. Priscilla built a cabinet shaped like a rectangular prism.

The length of the base is 9 inches, and the width is 40

inches.

What is the area of the base of the cabinet in square inches? A. 49 square inches

5.4.H - Perimeter, Area & Volume - Multigame

B. 360 square inches C. 98 square inches

2.8 ft 4.5 ft

5.4.H - Perimeter, Area & Volume - Multigame

2.8 ft 2.8 ft 2.8 ft

4. A hexagon and its side lengths are shown.

What is the perimeter of the hexagon in feet?

4.5 ft

2. The length of one edge of a cube is 3 units. What is the

volume of this cube in cubic units?

5.4.H - Perimeter, Area & Volume - Multigame

Purple One of the state of the







4 Yellow



5.4.H - Perimeter, Area & Volume - Multigame 7. Phoebe divided her rectangular vegetable garden into three sections, as shown in the drawing below. The potato section is a square with a side length of 7 meters. The carrot section is a square with a side length of 5 meters. What is the area, in square meters, of the corn section of Phoebe's garden?

Corn

Carrots

Potatoes

5. A rectangular billboard is 9.35 meters wide and 6.82

meters tall. What is the perimeter of the billboard in

meters?

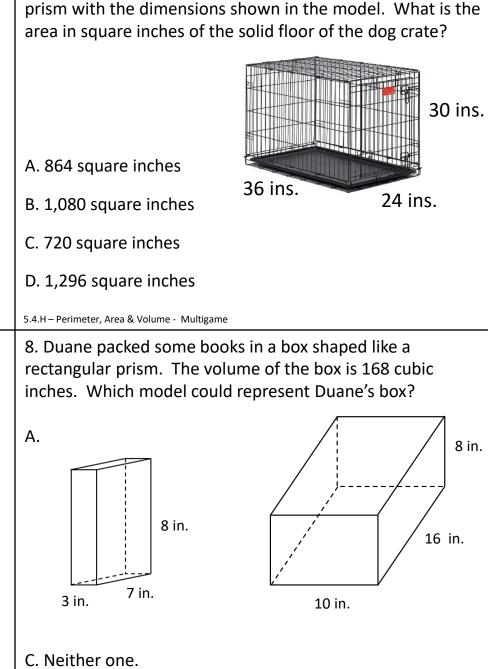
A. 10 square meters

B. 14 square meters

C. 84 square meters

D. 35 square meters

5.4.H - Perimeter, Area & Volume - Multigame



5.4.H - Perimeter, Area & Volume - Multigame

6. Gabriel bought a dog crate shaped like a rectangular

5 Red

6 PBGYR



Purple



 9. A square has a perimeter of 20 centimeters and an area of 25 centimeters. How long is one side of the square? A. 4 centimeters B. 5 centimeters C. 6 centimeters D. 7 centimeters 	10. The base of a rectangular prism has a length of 15 inches and a width of 13 inches. What is the area of this base of the prism in square inches?
5.4.H – Perimeter, Area & Volume - Multigame	5.4.H – Perimeter, Area & Volume - Multigame
11. A rectangular prism has a length of 20 inches, a width of 11 inches and a height of 13 inches. What is the volume in cubic inches of this rectangular prism?A. 233 cubic inches	12. Edgar built a deck in his backyard with a section in the shape of a rectangle and a section in the shape of a square. The model shows the dimensions of his deck in feet. What is the area of the deck Edgar built?
B. 2,860 cubic inches	16 ft
C. 160 cubic inches	8 ft
D. 88 cubic inches 5.4.H – Perimeter, Area & Volume - Multigame	8 ft 5.4.H – Perimeter, Area & Volume - Multigame

3 Green



4 Yellow



Red

6 PBGYR

triangle is 26 inches. The model shows the dimensions of the rectangle. What is the perimeter in inches of the triangle? 4 in. A. 19 in. 3 in. B. 12 in. C. 24 in. D. 15 in. 5.4.H - Perimeter, Area & Volume - Multigame 15. Abigail bought a storage shed shaped like a rectangular prism. The length of the base is 6 feet, and the width is 12

13. The combined perimeter of the rectangle and the

5.4.H - Perimeter, Area & Volume - Multigame 16. A hexagon and its side lengths are shown. What is the perimeter of the Hexagon in feet? 6 ft. 6 ft. 3 ft. 3 ft.

14. The length of one edge of a cube is 5 units. What is the

volume of this cube in cubic units?

feet. What is the area of the base of the storage shed in square

feet? A. 36 square feet

B. 54 square feet

C. 72 square feet

D. Not here

6 ft. 6 ft. 5.4.H - Perimeter, Area & Volume - Multigame

5.4.H - Perimeter, Area & Volume - Multigame

Purple One of the state of the







4 Yellow



A. 60 square inches B. 188 square inches C. 224 square inches D. 3,136 square inches 14 in 16 in. 5.4.H - Perimeter, Area & Volume - Multigame 5.4.H - Perimeter, Area & Volume - Multigame 19. Phillip built a large rectangular dollhouse with three rooms. 20. Marilyn needs a box to mail some presents to her family. The box needs to have a volume of at least 300 Cubic inches. The bedroom is a square with a side length of 4 feet. Which of these boxes could Marilyn use? The living room is a square with a side length of 6 feet. A. 2 in. What is the area in square feet of the kitchen? 5 in. 10 in. A. 6 square feet Bed Room B. 8 square feet

Kitchen

В.

18. Marcy got a box in the mail with the dimensions shown.

14 in.

9 in.

What is the area in square inches of the bottom of box?

7 in.

8 in.

C. Either box would work.

5.4.H - Perimeter, Area & Volume - Multigame

17. A square piece of cloth is 10.75 inches wide. What is the

Living Room

C. 10 square feet

D. 12 square feet

5.4.H - Perimeter, Area & Volume - Multigame

perimeter of the piece of cloth in inches?

5 Red

6 PBGYR



Purple

Blue

 21. A square has a perimeter of 24 centimeters and an area of 36 centimeters. How long is one side of the square? A. 4 centimeters B. 5 centimeters C. 6 centimeters D. 7 centimeters 	22. The base of a rectangular prism has a length of 12 inches and a width of 14 inches. What is the area of this base of the prism in square inches?
5.4.H – Perimeter, Area & Volume - Multigame	5.4.H – Perimeter, Area & Volume - Multigame
23. A rectangular prism has a length of 30 inches, a width of 12 inches and a height of 15 inches. What is the volume in cubic inches of this rectangular prism? A. 57 cubic inches	24. Moe built a pool in his backyard with a section in the shape of a rectangle and a section in the shape of a square. The model shows the dimensions of the pool in feet. What is the area of the pool that Moe built?
B. 360 cubic inches	20 ft.
C. 450 cubic inches D. 5,400 cubic inches	10 ft.
5.4.H – Perimeter, Area & Volume - Multigame	10 ft. 5.4.H – Perimeter, Area & Volume - Multigame

3 Green

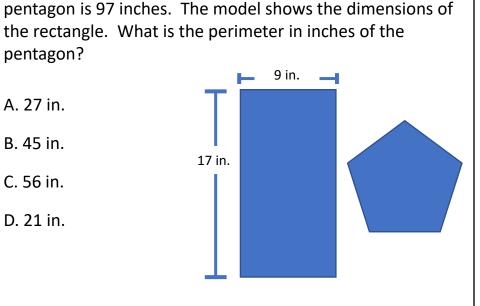


4 Yellow

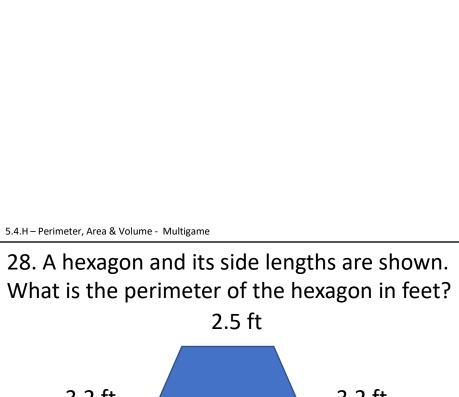


Red

6 PBGYR



25. The combined perimeter of the rectangle and the

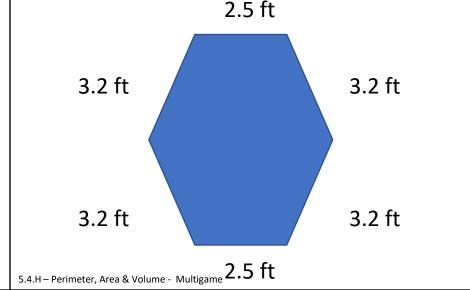


26. The length of one edge of a cube is 2 units. What is the

volume of this cube in cubic units?

5.4.H - Perimeter, Area & Volume - Multigame 27. Bernie built a toy box shaped like a rectangular prism. The length of the base is 24 inches, and the width is 20 inches. What is the area of the base of the toy box in square inches? A. 480 square inches B. 88 square inches C. 98 square inches D. Not here

5.4.H - Perimeter, Area & Volume - Multigame



Purple One







4 Yellow



29. A rectangular carpet has one side that is 7.45 feet and 30. Louie the Lion Tamer bought a new cage for his lion. The one side that is 5.25 feet. What is the perimeter of the floor of the cage has the dimensions shown. What is the carpet in feet? 5.4.H - Perimeter, Area & Volume - Multigame 31. Marty divided his rectangular dresser drawer into three sections, as shown in the drawing below. The sock section is a square with a side length of 12 inches. The T-shirt section is a square with a side length of 20 inches. A. What is the area, in square inches, of the section Marty is saving for other stuff? A. 20 square inches В. B. 40 square inches Socks T-shirts C. 64 square inches Other D. 96 square inches Stuff C. Neither one is big enough. 5.4.H - Perimeter, Area & Volume - Multigame 5.4.H - Perimeter, Area & Volume - Multigame

area of the floor of the cage? A. 126 square feet 10 ft. B. 45 square feet C. 22.5 square feet D. 1,260 square feet 10.5 ft. 12 ft. 5.4.H - Perimeter, Area & Volume - Multigame 32. Frenchie is packing a box to take on a trip to Europe. She wants to take the smallest box possible, but it must hold at least 1,600 cubic inches. Which box should Frenchie use? 12 in 10 in 15 in

14 in

17 in

12 in

5 Red

6 PBGYR



Purple

Green