|  |  |
| --- | --- |
| **1.** | /files/assess_files/c2661205-f630-4d96-ae24-5765e009d08e/47572edb-f304-4983-8d11-33960fe163e7.png |
|  |
|  | |  |  | | --- | --- | | **A.** | 32 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/bc22b93b-6765-4bd5-8507-66f535a2ed10/3bd996ab-f408-445a-aae5-a9ac0d1f2c55.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/1bb8d7d7-f838-4f3f-a1a3-17a7a5b12453/642ac57e-80f6-4f24-9b10-cd0acddbe26b.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/b6c0d068-68f0-455c-828c-607a7a4c3921/d3e21227-7726-4da1-bbc4-d9f32eb50bab.png | |
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| **2.** | **If** /files/assess_files/bcb4e827-4579-4732-9da6-5032554bd185/f9df51aa-d657-4940-89ba-b5ec66a3a128.png **what is one possible value of *y*?** |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/68eab3a6-471b-4210-be63-3ae23f4417f3/4a29c8fa-e815-4e9e-92dd-ec06d9d8fbef.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/2481387c-41be-4b45-8cae-748beb662b1d/f4e17426-3c84-48c4-94d7-61b62edc0e39.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/a9f057a6-ea3c-4c81-97a7-3be40df8d553/27b84cdd-c1d7-4c52-860c-0fbb8ec30747.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/5b0384ad-f8fd-4c2d-bedd-1c0b91c4a5a7/2e76bb5f-1ff0-47ec-b185-8b73a7d22467.png | |
|  |  |
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| **3.** | **Which model BEST represents** /files/assess_files/9cccb200-1e39-481c-8a35-9d9ce93f90c4/5429e2cc-d539-408d-8979-546569380fbd.png |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/182343.jpg | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/182344.jpg | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/182770.jpg | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/182345.jpg | |
|  |  |
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| --- | --- |
| **4.** | **Which model BEST represents** /files/assess_files/38afa20d-b3b9-4d03-8a42-f72c5babe176/3edfab48-a09f-45fd-9180-2dc14cc67479.png |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/182831.jpg | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/182832.jpg | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/182833.jpg | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/182834.jpg | |
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| --- | --- |
| **5.** | **Which model BEST represents** /files/assess_files/fd4cd2ea-7dec-430b-abc3-503fd968f78a/d67bcb43-b5a9-4517-a9fc-458212ee8be9.png |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/183739.jpg | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/183740.jpg | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/183741.jpg | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/183742.jpg | |
|  |  |
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| **6.** | **Which model BEST represents** /files/assess_files/e96b7a94-74b6-44c9-84bd-7914a81e5143/c27e2b9a-cee0-4f95-ab55-379823c2cc86.png |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/182835.jpg | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/182836.jpg | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/182837.jpg | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/182838.jpg | |
|  |  |
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| --- | --- |
| **7.** | **Aashi needs to solve** /files/assess_files/ca9304e1-ec0d-42bb-b781-33f407bd0399/c15e7a68-f082-4397-8be8-cbb81fa5b7c1.png **on her math homework. Which one of these models would be BEST for her to use?** |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/182839.jpg | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/182840.jpg | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/182841.jpg | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/182842.jpg | |
|  |  |
|  |  |

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| --- | --- |
| **8.** | **In the equation** /files/assess_files/7b783631-e20e-475f-9021-e0e543927945/b2288d25-4dd6-4611-a7a2-078504ef3b94.png **what is the value of *x*?** |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/95d810ec-3f79-4141-ae18-12ccae084ae9/15da1478-f054-4828-938e-958ecceaa91e.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/5f5681ac-ac9c-4e25-9f01-2741fd4ffa1a/08a566d2-afae-4279-a8b4-668d706209c1.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/82d513ea-da1b-45c0-a4f7-e8b75948affd/ed8515de-c6fe-40d5-b764-238c095f0dba.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/61ec06b9-43c6-42a3-a46f-6137c6f96c5f/92651b8c-624e-4251-b696-0614a82ba965.png | |
|  |  |
|  |  |

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| --- | --- |
| **9.** | **Which represents the solution to** /files/assess_files/b7c0d76a-7bf6-4a8b-acfc-01db75a06b8b/bbb69746-e2e9-41b2-ad08-6bfead9d3482.png**?** |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/e10811be-5e21-4690-8e74-644d7f7eb1be/115d33d3-7d66-4ec4-8266-d3c8d528a172.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/7a091915-2267-481a-a6d7-c73d13cbd7bd/4ab6af06-bb1f-4e29-aebf-994512a1fd3e.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/37d3c337-286a-42f8-aaf2-1ca9e65b553d/afc8360d-a814-4201-9fbe-c8d6ca43c291.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/1c9c53c5-6df0-445d-93de-a355b4625977/85ae087c-18e1-4903-83f6-57d2b5049431.png | |
|  |  |
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| --- | --- |
| **10.** | **The number** /files/assess_files/9b505f67-e974-4785-962c-10ec6cc8f5cf/7c129381-b004-4034-845a-7442581f7ea4.png **can be represented by which of the following geometric models?** |
|  |
|  | |  |  | | --- | --- | | **A.** | The perimeter of a square with an area of 100 square units | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | The side of a square with a perimeter of 10 units | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | The perimeter of a square with sides of /files/assess_files/063aa732-ec93-46c5-90da-0feef3a135af/171398b3-144b-459d-9269-d0ca177e5697.png in length | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | The side of a square with an area of 10 square units | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **11.** | **The figure below represents a square with an area of 21 square inches.**  /files/assess_files/2a8c6e42-fca6-496b-ad1f-ee98874713e6/163810.jpg  **Which value below represents the side length of this square, in inches?** |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/2b5d5860-86bb-4746-ab3a-81454c48582b/e1c8f933-9d3a-4410-8773-658b6067948f.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/ec755fd2-9164-4ddd-8670-6c20457f271e/381c2bff-7973-459b-aee2-6af1ae934d23.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/455bdd87-213d-4926-b296-ca8330cba8bf/9399f3b2-6c2c-4b6c-a22a-8780566fc032.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/dfc48af9-1136-4509-94ca-021362dae698/9158389d-1321-46e9-9549-0fdfb970ce42.png | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **12.** | **The figure below models a square with an area of 121 square meters.**  /files/assess_files/2a8c6e42-fca6-496b-ad1f-ee98874713e6/163815.jpg  **Which expression BEST represents the length, in meters, of each side of the square?** |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/12555dcb-034e-49c0-93e2-ec38622c718e/652ba79f-b9a3-44c1-984c-8e7a37f252ba.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/2b3980b8-ca85-436e-88f3-e509f983d52a/6050bcff-50cf-43ca-8fc5-fa639fdcc27c.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/fa476ee7-0d3c-4ef6-b803-5f0f919ad68d/557c8208-ebc2-410b-8c79-45306309a061.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/8bfd6b0c-a47b-4478-91b5-6e847fd8377e/5bb8949d-8eee-40fa-b746-04684fb954fc.png | |
|  |  |
|  |  |

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| --- | --- |
| **13.** | **Given** /files/assess_files/b5c8feaf-e0f8-435c-84ed-f0fb88ee8be4/bd55af05-21df-408b-9c9f-747af31a354b.png **which statement is true?** |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/f2277014-ad9e-4f30-aaed-dedd5d98b42f/9f373e4d-a89e-4812-aeb0-e2c6bcdd3bd0.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/7ac4153a-2402-47f4-b12b-3f1145510a93/ff74c63b-1bc8-4764-85f1-7bd0c8312d87.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/1c15ed23-7859-40a1-8d33-bf6ab08f3a38/db8c1652-0061-407b-b9d8-7ee8b2f588f5.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/63f6ce49-8391-479c-ba90-804b35ea28cf/566b9470-9c95-4dae-a0e1-e03901f41dd9.png | |
|  |  |
|  |  |

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| --- | --- |
| **14.** | **Given** /files/assess_files/055e7d29-bbef-41a1-ba6a-80e4d4cb0a2e/0baff850-f582-41c3-8b91-cb37ff503991.png **which statement is true?** |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/27da1e10-14aa-4f8f-8f6d-2a7be1a615f3/949d268d-a535-44fd-9681-82fa2e8491ae.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/a1434219-f5d1-4328-92ef-599fb0220417/1e71b994-33e4-4bf4-bc75-0ec50a589f9f.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 25 is the area of a square whose side has length 5. | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 25 is the perimeter of a square whose side has length 5. | |
|  |  |
|  |  |

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| --- | --- |
| **15.** | **Given** /files/assess_files/05f0d493-c91f-41f9-acf1-63cc4c106a0e/d748c526-a1c0-4a7a-aaaa-94303d99cc96.png **which of the following statements is true?** |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/b59b0e07-2410-4373-bd0e-60863e7a2d7a/c830ccb9-0361-400f-8794-fb0935056055.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/09e07196-8a42-448f-af96-981b3eaa570f/3084e6f4-98f3-4306-9abc-6bcc7b4ae62d.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 7 is the length of the side of a square whose area is 49. | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 7 is the length of the side of a square whose perimeter is 49. | |
|  |  |
|  |  |

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| --- | --- |
| **16.** | **Which statement is justified by** /files/assess_files/090b76a7-b20f-4277-bf2e-4f75a862d063/feb64c03-87af-443f-996c-397c3a97eac2.png |
|  |
|  | |  |  | | --- | --- | | **A.** | 14 is a perfect square. | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 196 is a perfect square. | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/5103f1d8-5ac2-441e-8f40-298db9f9553d/526a512a-7f9d-4bf0-983a-9304ac63b9e0.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/4e1972aa-7717-4cb9-b36f-eaa18d239514/67581edb-3f73-4027-86b6-8f9e018ec1cf.png | |
|  |  |
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| --- | --- |
| **17.** | **Marsha cut out a square piece of fabric with an area of 32 square feet. Which expression could be used to find the side length of the fabric?** |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/9a9e2510-c969-40fa-83f0-33d37157009c/ae33c67b-9f9c-4c4e-8931-3563083d89ae.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/df079873-844f-4a4b-81ca-efe823406e51/a6f44195-17d2-49fe-914f-3e041a2d4464.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/cf263def-e510-41c3-a67c-b4fd69c61cbb/a0f4c9a9-7366-4bc7-888d-38df75f97bdd.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/715ecdac-2e3c-4fcc-8126-e4f37094066d/54af3294-afe5-46d5-9653-80b59bfe2d75.png | |
|  |  |
|  |  |

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| --- | --- |
| **18.** | **If** /files/assess_files/8b29da33-f796-4ef1-b669-0e04ead554b6/ddb57c6c-5f5e-4e9c-a060-fbda5ea68331.png **which statement is true?** |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/a4a688bc-4cbb-437e-ba2b-5f5838f3b46d/21098f56-8d73-4d75-9d6f-7e141cc0ac97.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/6c67a66f-4bd4-4896-b328-22c2bcf87b9d/daf63806-9961-45c4-857f-ca4d9731d52c.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/d741d994-7527-4768-a372-8fbda6f2e653/dc133e96-f7d5-41f8-af82-1f02fdef5a21.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/2a9a884e-2107-4e56-bf60-04075e4a32a4/86a797f1-00fb-4975-8dd7-6a95c34a518f.png | |
|  |  |
|  |  |

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| --- | --- |
| **19.** | **The side lengths of four squares are represented in two different ways in the table below.**  /files/assess_files/670189db-bc80-4647-9ac2-3d826aaae7c4/163943.jpg  **What is another way to represent the side length of a square with a side length of 11 units?** |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/ced857ad-cb65-4082-a221-613215587b05/9449f2e1-4a4a-4758-b8db-9ff92ac4f84a.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/30cc2e8e-f726-4f76-8dcc-dc4eb1bbb393/5bae852b-58c3-44c4-a0fb-d0a1f9bf9783.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/0a991281-63ed-4730-a930-8efda8807370/3eaed917-41e4-4ecb-af17-4e333ffccb39.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/6ee98ceb-d338-437f-a2c7-2f8dc5ea8ed1/3ed7b052-b0b4-4375-9d63-e30bc9f8da83.png | |
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| --- | --- |
| **20.** | In the equation /files/assess_files/a9b21bca-5208-4c61-96a9-98af161088e9/image/a01db50f-aaac-4c9a-9288-b2b0017bad50.gifwhat is the value of *x*? |
|  |
|  | |  |  | | --- | --- | | **A.** | 2 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/6b0b7e0c-e0db-4fff-ab2c-55c1d24cbdcd/image/ccedb5e4-e55f-4e05-8d60-7493b5e35949.gif | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 5 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 24 | |
|  |  |
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| --- | --- |
| **21.** | What is the value of the expression/files/assess_files/34730ddc-c968-4691-95cc-510de3466ffc/image/11655237-851b-4291-8ce1-1a564c81646d.gif? |
|  |
|  | |  |  | | --- | --- | | **A.** | 3000 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 100 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 30 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 10 | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **22.** | Which equation has an irrational solution? |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/c234e2f2-5fe8-4be2-ab56-c1ccfc542505/image/84a1bfe0-bd26-4ec6-82c9-e983e135a766.gif | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/1c316f05-f370-4b69-aaf8-7434dd129cbc/image/5748e39e-1467-41d4-b0e5-4545f7b02613.gif | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/043570e3-61a8-40a2-8a25-157d64f72e5c/image/986d69f9-8895-49c3-951f-202ab6bf407a.gif | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/4bb854b2-50a0-421c-a80b-c89cc9213575/image/7d56bfc4-977c-4086-976e-3ee8b30fed60.gif | |
|  |  |
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| --- | --- |
| **23.** | If /files/assess_files/b54df393-e969-426a-b73d-5636a2924226/image/7b817b89-42d4-4821-91e5-54dd209a3a86.gifthen /files/assess_files/b54df393-e969-426a-b73d-5636a2924226/image/1d62ea3f-3ea3-48e8-b3c6-feca25c5695f.gif or /files/assess_files/b54df393-e969-426a-b73d-5636a2924226/image/cb901008-9c97-4c49-8413-f8369e27765a.gif Which equation shows why this statement is correct? |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/6a4fca4c-6247-45ea-89f9-5c39fb98d5d2/image/72b6e4c0-6db5-40ae-9fa3-66176b1307c4.gif | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/b9399c76-a96a-4e37-902d-93f66dd30135/image/4554cb2d-3a8b-4539-b34f-69fb6dcc752b.gif | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/26adf1d7-4031-4400-b5a6-c2bd79f49663/image/02582c2f-2ef2-445a-af33-00ea92bfb997.gif | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/5a269ff7-d936-4f8a-88cc-0ea15e95964f/image/eef93605-208c-4e21-b0cd-8ca4f89ef15a.gif | |
|  |  |
|  |  |

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| --- | --- |
| **24.** | What is the value of /files/assess_files/9b5fd1d1-ed01-4b4e-9386-a3a18e69dd52/image/08f7d09d-03ba-40dc-bdfe-8ad8a5f1537b.gif? |
|  |
|  | |  |  | | --- | --- | | **A.** | 4 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 8 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 16 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 32 | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **25.** | Which expression has a value of 10? |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/b4050c2c-195f-4a27-a12d-6c2b13ae56be/image/c16872fe-6142-4e5c-bb56-1963353a2fc2.gif | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/8e35ce23-e161-443c-8249-56087578ee5a/image/6b099802-8167-42f9-a37f-916eaa2a0fee.gif | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/95b8046e-a6ae-4cc4-8499-babbfc006510/image/be699b14-2e5e-4503-8173-63ccfcb8e89c.gif | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/fc674336-62d9-4384-9925-5a5d9ba404a1/image/b3d461e0-46f7-4204-8a23-cc6abd01023f.gif | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **26.** | What is the value of *z* when/files/assess_files/212b9b3d-6756-42d8-bf3a-38e88e180eba/image/95919fdb-c7b1-44c7-82f4-020b5f7f2fa0.gif? |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/a4b2add4-db34-4835-bb4b-73704de6bb34/image/8316d815-26c8-4b5f-927a-5c0de045d535.gif | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/179bef12-c97f-4300-b348-f1efa813e8b4/image/d65c5b7d-b041-466c-854a-3491e66e4d64.gif | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/75406be4-a0d5-4917-9a05-4c3e1f096ad6/image/8729843a-275c-49b9-9c81-a8302dff1785.gif | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/805bbcb3-0a36-40ce-b73a-6f26c228eb0f/image/2bd4a217-32f0-4002-9d52-fa7ee630b002.gif | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **27.** | If /files/assess_files/9a332783-107a-4dbc-8842-08dbe23655cd/image/5e53ff9a-05c8-458c-bac0-582eeb3045f7.gif what is a value of *x*? |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/80c5a982-5c0e-4272-980a-9d3ebfd904bc/image/53313cdd-9f5b-4e23-b1fe-07735f91f634.gif | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 3.5 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/2617c72a-d8c3-46fa-b562-232491b560e6/image/1e62d689-3bcf-42eb-b9a0-826c02841281.gif | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 14 | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **28.** | Which statement is true? |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/ac441f82-8580-485f-8162-92abd0b8dc12/image/14095761-35ab-47c1-a9cd-2bdb1481f6d2.gifis rational because it can be written as an integer. | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/59ddaeec-0548-4e02-96e8-7525a845f717/image/cb0bb593-a9bc-4e94-b227-d65a62274c08.gifis rational because it can be written as /files/assess_files/59ddaeec-0548-4e02-96e8-7525a845f717/image/bf61daee-5269-4596-b7ca-bee1abb137e6.gifor /files/assess_files/59ddaeec-0548-4e02-96e8-7525a845f717/image/dc818909-f8a3-4e82-be53-ce2da4a59e6c.gifwhere *a* and *b* are integers and /files/assess_files/59ddaeec-0548-4e02-96e8-7525a845f717/image/40f082a7-1216-4b97-808e-afec210091e2.gif | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/95761264-ae8b-4c4d-bc5a-9f4dfa8faf28/image/26173cb7-43fe-44fb-bd3e-f635206c7e05.gifis irrational because it cannot be written as a terminating decimal. | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/87026895-06ea-47cc-865e-ab0aec485aae/image/17b75e87-3611-46b5-a205-8bae0c2c918e.gif is irrational because it cannot be written as /files/assess_files/87026895-06ea-47cc-865e-ab0aec485aae/image/26bbc014-f9f7-4de1-bc7d-a3b0a0b66dc6.gif where *a* and *b* are integers and /files/assess_files/87026895-06ea-47cc-865e-ab0aec485aae/image/3b8e5948-81b3-4620-ab5f-632eb60b1c00.gif | |
|  |  |
|  |  |

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| --- | --- |
| **29.** | What is the solution to /files/assess_files/25067f44-4137-4d35-afeb-e6d122f78cee/image/b675cfe6-9ada-4235-81c0-1d73d03dae8b.gif? |
|  |
|  | |  |  | | --- | --- | | **A.** | x=−4 or x=4 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | x=−8 or x=8 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | x=−32 or x=32 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | x=−256 or x=256 | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **30.** | What is the value of *x* in the equation /files/assess_files/13ea7d73-a185-4055-ac99-8ab05fe74ce5/image/45f68db0-9bdb-44cd-814f-fcf3401de561.gif? |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/3942d5cb-3b0a-4513-9927-75193221b300/image/0dbe91ec-7396-4cdf-9a48-e3b453f39f3d.gif | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/e616e4e6-f5e1-4b8a-ad92-691c2ec73bde/image/d06d97ec-7c8e-45ef-ae5e-ce89d28e47e0.gif | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/0c95c77a-a0a4-4f3b-ad2c-e0abbc265a20/image/7a22d144-b5f3-4090-93da-4b0c69fa343b.gif | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/4711197d-68c9-477b-9bd8-4a463903501c/image/78214746-4836-4439-99d6-a2d9c83df1cf.gif | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **31.** | Which expression shows the value of *x*in the equation /files/assess_files/75754a7c-bbcd-4985-98a7-1b176b2cc188/images/8223958ca4f86e3b06d8b404ca1fa457.png |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/bdb9c924-77fb-4da9-b1c4-6d9e44676975/images/3b70552e287389fe0667d292f77f62d6.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/be5449e0-33b6-403b-b4fe-72a791b2ffac/images/dd4fcc78403430c593f7c331db680fa7.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/4da7852c-6612-4824-a910-81ee8c5b1643/images/785e213a1c0b42f98d85aef7af572402.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/da9c8bde-7885-4516-9215-20bd825eb041/images/9cd7cb752dfd55d93d33a61f72f3a62c.png | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **32.** | Tim bought 128 sandbags to completely fill a cube-shaped sandbox. Each bag fills a cubic foot in the sandbox. What is the length, in feet, of one of the sides of the sandbox? |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/e5f72f16-c46c-4026-a5e1-74e2fc886e40/images/cf91d25c5e3fa8ed529a3dd0ef8e8e10.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/c325298e-b7c6-4d80-8da7-28622a908aed/images/22d62ba7f42cb3ed3b016398eb19904b.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/3b5c6511-2a1a-4414-ad44-ac9dfab3cdcf/images/ce38c8b6397dbd131b6d2d65ecd7252a.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/a36ca3cb-8060-412a-96bb-35910108fdab/images/a42add6e6e8da2146ba78c6516589a85.png | |
|  |  |
|  |  |

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| --- | --- |
| **33.** | What is the value of *x* in the equation /files/assess_files/8228cfe0-e854-48a4-afa2-4cc2c2c135de/images/c3639a3214481bfccf7bb1e3cec1ab1a.png |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/1accf540-e140-42f4-9f4b-03de111c20e4/images/d6f3c7ede264a731f51fe0d8be3447ca.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/74e85d93-4442-4be5-add1-9690d1069887/images/d008aa9b1f2726b957773276d4b6cfc4.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/b7842dd0-694c-476c-bddd-bb541ea0c0f1/images/a83a1755346f351cf8271b5455bf53c0.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/4da718a1-78f8-4c5a-acc7-730238502124/images/950cad666db3c508b07743c063996772.png | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **34.** | Which expression has a value that is irrational? |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/e41a6eaf-afca-4ac9-ada2-61660f89d844/images/1520ac2c1a394c3c14043aa1df7a681c.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/cf94c17a-e80e-4e62-9cb0-9da17d4bcbcd/images/e46e101dba238264972e7d01396258e1.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/8c590e3e-ae2a-4db8-b21b-1ec9e839a372/images/9629c614ba36270a8b1f17d17cd51eee.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/49cef562-4e04-4c81-9736-0f76f62d6f7c/images/a508b86d29c97a4df7a06c626dee605a.png | |
|  |  |
|  |  |

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| --- | --- |
| **35.** | What is the value of the expression /files/assess_files/43a43562-a852-4822-b554-22dad849c8a0/images/257ffc10becc57dd502edc5473947586.png |
|  |
|  | |  |  | | --- | --- | | **A.** | 72 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 27 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 8 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 6 | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **36.** | Which expression represents the value of *x* in the equation below?    /files/assess_files/48bb2df6-709d-41f5-a255-72bdf3ca91a4/images/c5a7d56ea40c80134fee33b9745fd0db.png |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/f7c01ac6-06d4-4594-9c52-c8038ae513f1/images/c8346835b5a5c406337fe1f335d7b502.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/af176275-b8ee-4423-9dbf-13ba0d9b7e8e/images/8478af19ed353634cf365a19f859257d.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/ff2b432c-ecb3-4c4c-bc38-4cec5ca40d04/images/4b12f279ce801a9a7f9c86e009ab8893.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/b73cbbb7-b05e-4919-9281-e137e71d2300/images/b9cdcc980cb869e2e3c0efbcdfddcfe2.png | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **37.** | Which expression could represent the value of *x* in the equation below?  /files/assess_files/0b8d4e13-ce5f-4603-b6dd-38f43b2ef85e/images/2b44fafa140effdc0c2eb878b3d69035.png |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/501877d4-d938-4f3c-a13a-a2899932643c/images/0da4caa94f24b1993e0f072175c4db9f.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/ac0376fb-51c1-42c3-8035-a9c708713041/images/90c00c77a68747ff2b8e07c7612411cd.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/5f7246ef-b4e1-425c-a919-826b9567ce13/images/dd81e5e71fa0c91e43d7a8d25311b790.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/322580b0-5a11-4837-b782-596c7a968674/images/7b6cd82f26d883bfb63430c11af1a9aa.png | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **38.** | The volume of a cube is 125 cubic centimeters. How many centimeters long is each edge of the cube? |
|  |
|  | |  |  | | --- | --- | | **A.** | 5 centimeters | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 11 centimeters | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 15 centimeters | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 42 centimeters | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **39.** | An electric company charges its residential customers $0.13 per kWh with a fixed monthly charge of $16. If a customer uses /files/assess_files/e10f7ad1-75ae-4c53-9455-08ed5ebf27f7/images/5f2044b076c34e73f1b7a6a0ac7b127d.png of electricity in a month, which of these functions represents the total monthly bill? |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/1905976f-aded-4d1d-ab2c-5a62395c63b7/images/3b69957b0969c59fc47878e7b616e2ae.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/dba4da48-233c-45f9-9926-5fb19fa32ac7/images/7de0869f51a66e36d6003c3b01f39f83.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/432c4bc7-ad88-46eb-be84-8c5423653652/images/367351a2e9b808f1902cd77b06910593.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/eeca1970-2db7-490b-8713-5f37d8474ac8/images/918d6e9a8a383ebb3d18125c9fc51cf3.png | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **40.** | The table below shows the value of Henry’s car for each of the first 3 years after it is purchased. The values form a geometric sequence.  /files/assess_files/6d127c08-1721-4107-a109-8b1e89fe3f37/images/381068c2-28f4-46d5-a21d-55113fb3d535_a360148.gif  What will be the approximate value of the car in the 10th year? |
|  |
|  | |  |  | | --- | --- | | **A.** | $2,150 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | $2,680 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | $5,240 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | $6,550 | |
|  |  |
|  |  |